THE COMPLEAT SOLDIER, OR EXPERT Artillery-Man.

CONTAINING

The several Postures and Exercises of the *Pike* and *Musquet*; the various Beats of the *Drum*; and what else is necessary for a young *Soldier* to understand.

ALSO,

Divers ways of Exercising a *Company*, very useful for all *Officers*, and others, that delight in *Military Affairs*.

Quanta est armorum gloria!

LONDON,
Printed by *A. G.* and *J. P.* for *Thomas Sawbridge*, at the *Three Flowers-de-Lys* in *Little-Britain*, 1681.

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LONDON,

Printed by J. G. and J. P. for Thomas Sawbridge, at the Three Flowers de-Lys in Little Britain, 1661.

To the Honourable

Sir Joseph Sheldon,

KNIGHT,

Alderman of the Honourable City of LONDON.

THE very Title of this BOOK is a kind of *Dedication*; and you may justly challenge it, by bearing so eminent an Office in the *Artillery*. Letters and Arms are the two things that govern the whole World; both seem to have been monopolized by your generous

Family, the former by a Learned Archbiſhop, the latter by your ſelf. And though that *great good Man* has left this World, a grave and learned *Prelate* ſtill ſurvives, a collateral Ornament to the name of *Sheldon*. The Book I here humbly lay down at your Feet, was compiled by a *Cheſhire* Gentleman, in Commiſſion for that County; his Modeſty will not permit him to put his name to it. Modeſty! that inherent Virtue in all truly noble and generous Souls. His Labour has been great, for ſmaller Tracts require more judgment and indu-

induſtry than greater Volumes, as tranſlating is more difficult than writing. He has made uſe of ſeveral Authors of the beſt note upon this Subject among the *Ancients*, as *Plutarch*, *Vegetius*, *Xenophon*, *Homer*, *Juſtin*, *Tully*, *Ælian*'s Tacticks, *&c.* the Moderns he has digeſted in ſo compendious a method, that this ſmall Book will be certainly moſt extreamly pleaſing; the bulk of other Books of this nature being ſo large, that they require much Time to peruſe, and Money to purchaſe; of which two things, many perſons deſ-

rous of Experience in *Military* Affairs, can spare neither. Useful I presume this small Tract will be, especially in such dangerous Times, wherein no *Posture* is more convenient than *that of Defence*. Especially considering that many Trades and Occupations (excepting those of *Handicrafts*) are sedentary, and in expectation, those intervals of time may be herein spent by the Youth of this populous City; by the help of this they may be their own Tutors, and every private Shop seem an *Academy for Arms*.

To you therefore, Honourable Sir, I Dedicate this Piece, humbly desiring you to honour it with your Acceptance; and that you may long live the Glory of this great City for your Loyalty, Conduct, and Experience, both in Arms and Peace, is the Hearty wish of,

Your most humble Servant,

E. RAWLINS.

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THE

THE COMPLEAT SOLDIER, OR EXPERT Artillery-Man.

CHAP. I.

By way of Introduction.

THE first Rudiments of Education wherewithall a young Soldier ought to be conversant in, is first to learn the right use of his Arms, than which nothing can make a Man more compleat, nor fit for to bear the Name of a *Soldier*; neither can any Man whatever attain to the

least part of the *Art Military* (which concerneth Infantry, or Foot-Soldiers) without the well managing, and well handling of their Arms. How delightful is it to those who can perform this first Part? And with what ease, courage, and safety, can they both defend themselves, and offend their Enemies? Where, on the contrary, the chiefest Arms (without Exercise) become not only troublesom Burthens unto the unskilful Bearers, but oftentimes prove hurtful and dangerous, both to themselves, and others: Therefore I could wish the necessity of this might be considered by all, who intend any proficiency in this part of the *Art Military*; first, to be instructed in the Postures, and well handling of their Arms, that like that resolute *Spartan Ifadas*, they may with Art and Courage (in time of danger) defend both their King and Country. If this in our *Militia* (whereof I am a Member) were but considered, and that there might be a reasonable time set apart once in every year for a private Exercise, and once every year for a General Muster, no doubt but there would

Plut. in Agesilao.

would be given such account to the World, as would make this Kingdom not only famous, but feared by the whole World: What Exercise doth for the making of good Soldiers, Experience of former Times will teach. It hath been the manner of all famous Generals to bring their Soldiers to perfection by Exercise. * *Vegetius* saith very well, *It is not length of life, or number of years, that teacheth the Art of War, but continual Discipline, and Exercise of Arms; let a Soldier serve never so many years, so long as he is unexercised, he shall still be a raw Soldier.* The true knowledge of Postures causeth a neatness in the handling of Arms, which maketh a Soldier; the gain whereof must be by Action. As long as a Soldier handleth not his Arms, he is no Actor, for all Abilities in Arts arise out of a number of Actions; so that no Man can attain to a perfect knowledge of Arms, 'till he hath with care and diligence imployd both his study and labour therein, and upon the foundation of Practice, raised the frame of Sound, and perfect Skill. No man is naturally born a

* *Vegetius l. 2. c. 3.*

Soldier, one may more incline to War than another; but the Skill cometh not without industry and pains. **Plutarch* saith, *That it is neither* Eurotas, *nor the place betwixt* Babyx *and* Gnacion, *that bringeth forth Valiant and Warlike Men:* But they are to be found out in all places (in *England*) where Youth is bred up in shame of Vice, and Boldness to undergo peril for Virtues sake. The *Lacedemonians* were accounted the most valiant People of *Greece.* * *Plutarch* speaketh this of the Victory which the *Thebans* obtained against the *Lacedemonians*, which 'till that day had no Reputation of Valour; but afterward by Exercise, and use of Arms, under *Epaminondas* and *Pelopidas*, they became the bravest Soldiers of *Greece.* Not unlike was the saying of *Pyrrhus* to his Muster-Master; *Chuse you* (said he) *good Bodies, and I will make them good Soldiers:* A strong Body is most requisite in a good Soldier, to undergo the labours of War; * but it is Exercise, and the desire to handle Weapons, that giveth the perfect Skill. Therefore as * *Demosthenes*, being demanded what

* *Plutarch. in Pelop.* Eurotas *was a River near* Lacedemon; Babyx *and* Gnacion *were two Rivers within the City.*

* *Plutarch. in Lycur.*

* *Vegetius l.* 1. *c.* 1.

* *Cicer. in Brut. a.* 22.

what was the first and principal thing in the *Art Oratory*, answered *Action*; what the second, *Action*; what the third, *Action*; so we may truly say, that in the *Art Military*, Exercise is not only the first, second, and third principal thing to make a Soldier, but also all in all. I could have given you a particular of the Exercise used in ancient time, and likewise of the Victories which have been obtained by a small number of Men well exercised, against a multitude unskilful and untrained; but being not at all pertinent to my intent, and having too much transgress'd already, I leave the Curious to peruse those several Authors that have writ at large of this Subject, viz. *Xenophon*, *Vegetius*, *Cicero*, *Homer*, *Justin*, and others, while I proceed to give a touch upon the Definition of *Posture*.

CHAP. II.

The Definition of Poſture.

POSTURE is conceived to be a Garb or Figure that a Man ſtands in for the well handling of his Arms, in which there are Motions attendant unto the ſame for the better Grace, and becoming of them: Likewiſe by Motion it conveys a neat Agility of the Body, whereby the right handling of their Arms is atchieved, and ſo becomes eaſie; *Motion* being the working part, *Poſture* the alteration or act, either in circumſtance or matter: As to *Reſt your Muſquet*, being one Poſture; to *Shoulder your Muſquet*, another; ſo likewiſe for the reſt.

CHAP. III.

Of the Postures of the Pike.

NOW as to the *Postures* themselves, I shall first begin with the Postures of the *Pike*, before I begin the Postures of the *Musquet*, conceiving the Pike (which Mr. *Elton*, and likewise the * Tacticks of *Ælian* makes plain) to be the more ancient, and therefore the more honourable Arms, which hath been the reason (as I conceive) why so many gallant Gentlemen have trailed Pikes of late years, both in *Holland*, and elsewhere. The Postures of the *Pike* are as followeth, the *Pike* lying on the ground.

* *Ælian*, *cap.* 12.

Command.

Handle your Pike.
Raise up your Pike.

To your Open Order.
To your Order.
To your Close Order.

Order, and *Open Order*, I conceive only ſerves as a handſom Poſture for the *Pikes* to be in upon a ſtand, or when their Arms are to be viewed by the Muſter-Maſter upon a Muſter day. It hath been the cuſtom in ancient time to Charge to the Horſe, by putting the But end of the *Pike* at the inſide of the right Foot, (which is called *Cloſe Order*) your *Pike* in the left Hand, drawing your Sword over your left Arm. But it is the received opinion of the beſt Soldiers, that it is a weak Charge, and of no uſe for Defence; therefore I omit the Charge, and proceed.

Command.

From Order	*Advance* / *Shoulder* / *Port* / *Comport* / *Cheek* / *Trail*	*your Pike.*	*Order as you were.*

Before I proceed I muſt tell you, that Silence ought to be commanded, and by the Soldier diligently obeyed.

Com-

Command.

From your Order Charge to the	*Front* / *Right* / *Left* / *Reer*	*Order as you were.*

Note, That *Charge to the Reer*, is to be underſtood always *To the left about*, becauſe it is three times the nearer way.

Command.

Advance / *Shoulder* / *Port* / *Comport* / *Cheek* / *Trail*	*your Pike.*	*Advance as you were.*

Note, That the *Advancing of the Pike* is uſeful when the Drum beats a Troop: It is likewiſe uſeful upon all *Doublings*, *Counter-Marches*, and *Wheelings*, only remember they conform to the ſtanding Party after they are reduced.

Com-

Command.

From your Charge to the	Advance	Front / Right / Left / Reer	Advance as you were.

Command.

Shoulder / Port / Comport / Cheek / Trail	your Pike.	Shoulder as you were.

Note, This is useful upon a March: It is likewise useful in time of Fight, provided the Pikes be upon a stand; it doth not only preserve the Pikes, but the Soldiers also.

Command.

From your Shoulder Charge to the	Front / Right / Left / Reer	Shoulder as you were.

Command.

Port *Comport* *Cheek* *Trail*	*your Pikes.*	*Port as you were.*

Note, That *Port* is only fit for the Soldiers to enter a Gate or Sally-Port, and likewise to ease the Reer in time of Battel, when the Front are at Charge.

Command.

From your Comport Charge to the	*Front* *Right* *Left* *Reer*	*Comport as you were.*

Note, That *Comport* is only necessary for a Soldier upon his March, to ease himself up a Hill.

Command.

Cheek *Trail*	*your Pikes.*	*Cheek as you were.*

The

The Pike *Cheeked* is the right Sentinel Posture, which ought always to be made use of upon that occasion.

Command.

Trail your PIKES.

From your Trail / *Charge to the* { *Front* / *Right* / *Left* / *Reer* } | *Trail as you were.*

Note, That this Posture is only useful in a Trench to move for security of any Breach undiscovered, likewise in the Marching through a Wood, and upon Funeral occasions.

Command.

Order your / *Lay down your* } *Pikes.*

Here is to be observed by this method, That all the Postures of the *Pike* are performed particularly, not Commanding one Twice; and no one, be he never so Skilful, ought to slight any of these Postures, being that at one time or other he will have occasion to use them.

CHAP.

CHAP. IV.

NOW that our Soldiers are well Trained, and that they rightly underſtand the ſeveral Poſtures of the *Pike* before recited, and are ready to march into the Field before their Enemies; I ſhall contract the Poſtures, and Charges of the *Pike*, into a ſhorter way, fit for the Service of the Field. The *Pikes* lying on the ground, the firſt word of Command will be,

Stand to your } *Arms.*
Handle your }

Command.

Raiſe up your PIKES.

To your { *Open Order.*
Order.
Cloſe Order.

Note, As before, I ſhall omit the Charges of *Cloſe Order* to the Horſe, and with brevity proceed.

Come

Command.

Order as you were.

Command.

Advance } *your Pikes.*
Port }

Charge to the Front.

Command.

Shoulder your Pikes.
Charge to the Front.

Command.

Comport your Pikes.
Charge to the Left.

Command.

Cheek } *your Pikes.*
Trail }

Charge to the Reer.

CHAP.

CHAP. V.

HAving now done with the *Pike*, in the next place it will be convenient to ſhew you the Poſtures of the *Muſket*, or *Calliver*, together with the Reſt; which ſhall be ſhewed you at large, as it was exerciſed, and ſtill is, in the *Military Gardens*; and after, in as ſhort a method as poſſible, the way ſhall be ſhewed you how it is now exerciſed, both with the Match, and without the Match, and Reſt.

The *Muſket* lying on the ground, the firſt word of Command will be,

Stand to your Arms.

Take up your } *Bandaliers.*
Put on your }

Take up your } *Match.*
Place your }

Take up your Muſket, and Reſt.

Reſt your Muſket.

Col. Wil. Barriffe, *in his young Artillery-Man*, p. 2.

Now

Now if you pleaſe, you may perform your *Saluting* Poſture.

Poyſe } your *Muſket.*
Shoulder }

Take your Reſt into your right Hand, and you are Armed ready to march.

Take your Match between the Fingers of your right Hand.

Put your Reſt String about your left Wriſt, and carry your Reſt in your left Hand.

Return your Match between the Fingers of your left Hand.

Unſhoulder } your *Muſket.*
and Poyſe }

Turn your Reſt to the outſide of your Muſket.

Open
Clear
Prime } your *Pan.*
Shut

Caſt
Blow } off your *looſe Corns.*

Bring

Bring about your Musket to the Sword side.

Trail your Rest, and Balance your Musket in your left hand.

Charge with Powder.

Draw forth } *your Scouring-stick.*
Shorten }

Charge with Bullet.

Put your Scouring-stick into your Musket.

Ram home your Charge.

Withdraw }
Shorten } *your Scouring-Stick.*
Return }

Bring forward your Musket, and *Rest.*

Poyse your Musket, and *recover your Rest.*

Joyn your Rest to the outside of your Musket.

Draw forth your Match.

Blow your Coal.

Cock and Fit your Match.

Guard your Pan.

Blow the Ashes from your Coal.

Open your Pan.

Present upon your Rest.

Give Fire Breast high.

Dismount your Musket, joyning your Rest to the outside of your Musket.

Uncock / *Return* } *your Match.*

Clear / *Shut* } *your Pan.*

Poyse / *Shoulder* } *your Musket.*

Take your Match between the Fingers of your right Hand.

Take your Rest into your right hand, clearing your String from your Wrist.

Return your Rest into your left hand, the String loose.

Return your Match into your left hand.

Note: This causes the Soldiers to be in a fit capacity for to March; but if

if you are to lay down your Arms upon the Ground, proceed.

Unſhoulder } *your Muſket.*
Poyſe }
Reſt }

Set the But-end of your Muſket on the Ground.

Lay down your Muſket and Reſt.

Lay down your Match.

Take off } *your Bandaliers.*
Lay down }

Face about to the left, and march from your Arms.

Face about to the right, and ſtand to your Arms.

This is principally uſed to make the Soldiers apt and ready to find their places, if upon a ſudden Alarm they be called.

Here endeth the Poſtures of the *Muſket*, together with the *Reſt*, beginning from the taking them up from the Ground, and by an orderly pro-

ceeding to make ready, and so to lay them down again.

CHAP. VI.

NOW having shewed you the Postures of the *Musket* and *Rest*, according to the formal way of Exercise of late used, and still is in those learned Schools of Discipline, the *Military Grounds* (which I wish may flourish for ever with good, able, and loyal Soldiers, that may be ready to do their King and Country Service) let us see how we can handle the *Musket* without the *Rest*, and likewise with and without the *Match*: The *Musket* lying on the ground, the words of Command will be as before.

Stand to your } *Arms.*
Handle your }

Now you are to take notice, That in taking up the *Bandaliers*, putting them on; the taking up of the *Match*, placing of it; and the taking up of the *Musket*; these or the like are not Postures,

Postures, but Motions to the first Posture Therefore I will leave out the words of Command tending to the Motions, and proceed to the Postures themselves.

The Mukettier being shoulder'd,

Command.

Snaphance.

Slope / *Let slip* } *your Muskets.*

Unshoulder and Poyse } *your Muskets.*

Palm Rest } *your Muskets.*

Secure your Cock.

Draw back your Hammer.

Clear / *Prime* } *your Pan.*

Put down your } *Steel. Hammer.*

Matchlock.

It is not needful to insert every Command, but only add such as are now in use for the *Matchlock.*

Sloping and Slipping of the Musket is only Motion, not Posture.

The Match being placed in the left hand,

Open / *Clear* / *Prime* / *Shut* } *your Pan with a full hand.*

Snaphance. Matchlock.

Caſt } *off your looſe Corns.*
Or Blow }

Bring about your Muket to the Sword ſide.

Handle your Charger.

Open your Charger with your Teeth.

Charge with Powder.

Draw forth your Scourer.

Shorten your Scourer to an Inch againſt your right Breaſt.

Charge with Bullet.

Ram home your Powder and Ball.

Withdraw your Scourer.

Shorten your Scourer to a handful.

Return your Scourer.

Bring forward } *your Muket.*
And Poiſe }

Palm } *your Muket.*
Or Reſt }

Fit

Snaphance.	Matchlock.
Fit your Hammer, or Steel.	*Handle your Match*
	Blow your Coal.
Free / *Bend* } *your Cock.*	*Cock* / *Try* } *your Match.*
Present your Musket.	*Guard your Pan with your 2 foremost Fingers.*
Give Fire.	*Blow the Ashes from your Coal, or advance your right Foot.*
Palm / *or* / *Rest* } *your Musket*	
Clear / *Shut* } *your Pan.*	*Blow and open your Pan.*
	Advance your left Foot, and to the front Present.
Poyse / *Shoulder* } *your Musket.*	*Unlock* / *Return* } *your Match.*

The *Musket* being shoulder'd, you are ready for a March, or in a fit Posture for any Motion.

That which is called the *Saluting Posture*, is to be performed from the Resting (or Palming) of the *Musket*, when a Soldier hath occasion to Salute his Friend, or in honouring any other person deserving. And for the Sentinel Posture, the *Musket* is to be in the palm of the left hand at his resting Posture, but his *Musket* to be charged with Powder, and Bullet in his Mouth, his Cock freed, and secur'd with his Thumb, so to be ready to execute his Charge. This Posture rightly performed, is (in my opinion) one of the most becoming Postures that belongs to the *Musket*, and will as soon discover a good Soldier.

Capt. *Ven.* There is a word of Command sometimes used, *Reverse your Musket*, which is the marching Funeral Posture: The way to perform it, is to put the But end of the *Musket* upwards under your left Arm, holding it in your left Hand about the Lock of the *Musket*.

CHAP.

CHAP. VII.

THere is alſo a conformity of Poſture betwixt the *Muſket*, and thoſe of the *Pike*; the words of Command to be given, may in many things be received by both Arms; as the *Muſket* and *Pike* lying on the ground, theſe words of Command may properly be implied to both.

As for Example.

Stand to
Handle } *your Arms.*
Order

That is the But end of the *Muſket* ſtanding on the ground, at the outſide of the right Foot, is conformable to the Pike ordered; and in my opinion, the propereſt Command for this Poſture of the *Muſket*, is, *Order your Muſket*, being it is ſo conformable to their *Pike* ordered; for the moſt apt and eaſieſt expreſſions, are certainly moſt fitteſt to be conduced into words

of

of Command: And I cannot conceive, but the word *Order* may as aptly be received by the *Musketier* as by the *Pikeman*, (tho' Lieutenant-Collonel *Barriffe*, and others, be of a contrary opinion.) But to proceed farther in the reſt of the Poſtures, *viz.*

Elton, p. 6. cap. 7.

The Musket poiſed, to the Pike advanced.

The Musket ſhoulder'd, to the Pike ſhoulder'd.

The Musket porting, to the Pike porting.

The Musket reverſt, (as in the Funeral Poſture) to the Pike trailing.

The Musket palmed, to the Pike cheeked; which is the proper Sentinel Poſture for both.

The Musket preſented, to the Pike charged.

As for the Motion of Poſture, which conduceth to lading, priming of the Musket, and the Pike, they are all included in that general word of Command, properly belonging to the Musketiers, which is, to *make ready*.

CHAP.

CHAP. VIII.

THe place of Dignity which every Soldier hath, and ought to have, both in Rank and File, ſhall be declared.

The noble Soldier, being inquiſitive after Honour, is much deſirous to underſtand his place of Worth and Dignity, which he ever conceives to be as due to him as his life; which was the reaſon that cauſed both the *Grecian* and *Roman* Generals to be ſo exact and curious in beſtowing Rewards upon all valiant Soldiers who were deſerving of the ſame, and according to every Man's Worth and Dignity, gave him precedence of Place and Command over the others, that they might lead and direct them as occaſion ſhould require; as you may read at large in ſeveral Authors who treat of thoſe Wars; which Cuſtom from that time hath ever ſince been obſerved, and ſtill is practiſed by all Nations.

Xenoph. Cyrop. l. 3. *c.* 85. *and l.* 8. 203. *Æ. Vegat. l.* 3. *c.* 18.

There-

Therefore it is fit that the young Soldier ſhould underſtand his place of Dignity, which if he would but eſteem it of that Credit which all former Ages have done, certainly they would take more care to put in practice all ſuch Duties which is thereby requir'd; it is ſtrange to think there ſhould be ſo much ignorance, as there is in our Annual Exerciſes; but finding many very ignorant of the difference between a *File* and a *Rank*, and what Dignity belongs thereto, induces me to ſhew what is requir'd to the making up of a *File*, and likewiſe of a *Rank*, with the Dignity of each Man as he ſtands, both in *File* and *Rank*.

A File. First, Know that a *File* is a number of Men beginning at one Leader, and continuing in order of followers to the laſt Man; or from the firſt, which is termed *Protoſtatai*, a *File-Leader*, to the laſt, which is termed *Epiſtatai*, or *Bringer up*.

For the number of a *File*, our preſent Diſcipline only allows ſix, and no more; ſo that there needs no farther diſpute concerning the number of a *File*.

Secondly,

Secondly, A *Rank* is a Row of Men composed of *Files* more or leſs joyned together, as when one *File* is laid flankwiſe to one another, ſtanding ſhoulder to ſhoulder from the right hand to the left. *A Rank.*

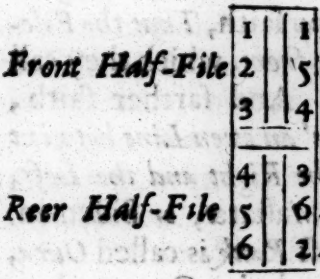
A *File* of it ſelf worketh little effect againſt an Enemy, for what can a Man alone in front do? *Cyrus* in *Xenophon* wiſheth, That whereas the *Egyptians* ſtood 100 in depth, they had been in depth 1000; *for* (ſaith he) *we ſhould have the fewer Hands to fight againſt.* *Xenoph. Cyrop. l. 6. 167.*

The *Rank* bringeth the multitude of Hands to fight; which without doubt the more Hands that are with convenience brought to fight, the more is the advantage to him that bringeth them. *V. Urbinus* ſaith, *That the File-Leaders make the front*, which they call *The firſt Rank:* And farther ſaith, *They that run in an even Line betwixt the two Wings, the Right and the Left, are ſaid to be* Paraſtatæ, *or* Sidemen. Likewiſe the laſt *Rank* is called *Oura*, or *The Reer*; and the Commander, *Ouragos*, the *Bringer up.* So that in all preparations for Exerciſe, *Files* muſt firſt be made up, which being *Capt. B. in his Notes upon Ælian's Tacticks, c. 47.*

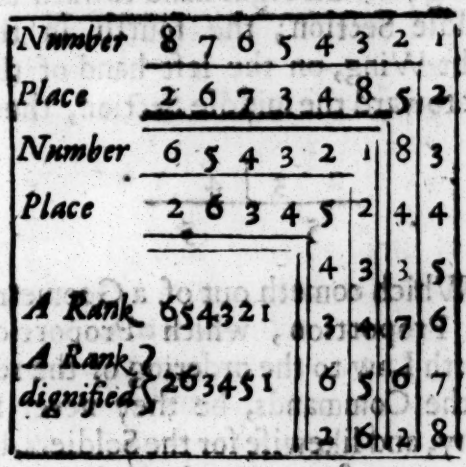
drawn

drawn forth, and joyned together, *Ranks* are made. It is ever the practice of all judicious Commanders first to draw their Soldiers forth into *Files*, which being added together, *Ranks* are made.

By this time the Soldier will expect to know his place of Dignity; wherefore because that *Files* are first to be drawn forth, I will begin first with the precedence of *Files*. Therefore conceive their Dignities according to the Figures (or Numbers) hereafter plac'd, first of *File*; then of *Rank*; and lastly, of both joyned together.



Num-



Now for as much as several Authors are of several opinions in this point, so I will leave them to their own fancies, and only set down the opinion of Captain *Bingham* in this point, which is very clear. His *Analogy* is thus: That if four Magnitudes be propounded in proportion, that which ariseth of the first and fourth, is equal to that of the second and third; so that the first *Tetrarch* is allowed the first place of Dignity, and is placed on the right hand Wing; the second is placed on the outside Point of the left hand Wing; the third next him in the left Wing,

Ælion's Tactics, lib. 1. the Notes of cap. 10.

Wing, on his right hand toward the middle Section; the fourth in the right Wing, on the left hand of the first toward the middle Section, thus:

2 3	4 1
5	5

Which cometh out of a Geometrical Proportion, which Proportion giveth Law to the ordering of the rest of the Commands, be they never so many, and likewise for the Soldiers, be they never so many; the Rule is this: Four Magnitudes which equally exceed the one the other being compared together, that which ariseth of the first and the fourth, is equal to that which ariseth of the second and third; and if the Number produced of the first and fourth, be equal to that produced of the second and third, those four Numbers shall be in proportion.

Eucl. l. 7. pr. 19.

CHAP.

CHAP. IX.

Reaſons for precedence of Dignity in Ranks and Files.

BEING that perhaps ſome may ſtumble at this, and ſay. that it is ſuperfluous, and not neceſſary in Diſcipline, I will endeavour to give ſome Reaſons for the ſeveral places of Dignity in *Rank* and *File*.

It is the received opinion of the greateſt Commanders, that Geometrical Proportion gives both Life and Being to orderly Diſcipline; if that be allowed, then conſider that all parts of the Body ought to be anſwerable; for ſeeing that the joyning of *Files* and *Ranks* produce greater Bodies, it is neceſſary that a true proportion ſhould be kept throughout the whole Battel, ſo that the left Wing may be equivalent in all reſpects of worth, skill, and valour, to the Right, the Reer, to the Front, and the Reer half Files, to the Front half Files; and that all parts of the Body be ballanc'd

with true proportion, ſo far as the knowledge of the Soldiers, and number of Men, will give you leave: Otherwiſe it would be very unreaſonable, that all the chief Men ſhould be on the right Flank, and all the worſt on the left (who muſt oppoſe the right Flank of their Enemy); and likewiſe the Front to have in it all the beſt Men, and all the worſt to be in the Reer (who are principally to defend that part); if that at any time the Enemy approach upon the Reer, it would be certainly thought a very indiſcreet thing of that Commander that ſhould ſo order his Battel.

Firſt therefore, the *File-Leader* ought to be the worthieſt, becauſe he not only Commands his *File*, but makes the firſt onſet againſt his Enemy.

Secondly, The *Bringer-up* ought to be the ſecond place in Honour, becauſe he is the laſt Man in the Field marching in the Reer, which upon all occaſion of danger he ought to defend.

Thirdly, The *Half File-Leader* is the third place of Honour, becauſe he is the Leader of the *Reer half Files*

upon

upon ſeveral Motions, as doubling the Front, either intire, or diviſional; or upon any other doubling to the Front.

Fourthly, The laſt Man (or *Bringer up*) of the *Front half Files*, is the fourth Man in Dignity; for when the *Reer half Files* are commanded off, he hath the Honour of defending the Reer.

Fifthly, The next Man to the *File-Leader* hath the fifth place of Honour, for one Doubling brings him to the Front.

Sixthly, The next and laſt place of Honour is before the *Bringer up*, for if the Body be faced about, one Doubling brings him into the accidental Front; or keeping his proper Front, by once doubling he becomes *Bringer up* to the *File-Leader*.

So that it is plain by this *Geometrical* Proportion, the whole Body is equivalent in skill and worth, and as it were (and indeed ought to be) Seconds the one to the other, ſo long as life endureth.

And then it may be ſaid of them, as *Plutarch* writeth of the holy Band of the *Thebans*, That it was never beaten *Plutar. in Pelop. A.*

until the Battel of *Cheræa*; after which Battel, *Philip* the Father of *Alexander* surveying the dead Bodies, and coming to the place where these 300 lay, all close mingled one with another, and struck through with the *Macedonian* Pikes, he wonder'd greatly; but hearing that it was the Band of Lovers, and belov'd, wept, and said, *Evilly may they perish, that suspect any filthiness in deed or suffering to have been practised amongst such Men.*

So that you see, that in all Ages care hath been taken to bestow Honour upon those Soldiers who have made it their employ to deserve it; and on the other hand, what indign Punishment hath been inflicted upon all those, who either carelesly, or wilfully neglect their Duty. I might have inserted the several Punishments that have been inflicted upon the disobedient Soldier, but being not material, I shall wave it, and proceed.

CHAP.

CHAP. X.

Of the DRUM.

IT is requiſite in the next plaee that care be taken, that every Soldier be rightly inſtructed in all *Military* Signs and Directions; for Experience hath ſufficiently taught, that the neglect and errour in the right underſtanding thereof, hath not only brought great inconveniencies, but the overthrow of great Enterprizes: Therefore the Captain ought to be very circumſpect, that his Soldiers be well acquainted with all the ſigns of War, which are only theſe three uſed, *viz.* a *Vocal*, a *Semivocal*, and a *Mute*.

Firſt, A *Vocal Sign* is, that when a Captain, or ſome other Officer, ſo immediately Commands, that every Soldier ſhall hear him diſtinctly.

A *Semivocal Sign* is that which is diſtinguiſhed by a *Dram*, or other Warlike Inſtrument, in which, as to Foot-Service, according to modern

Diſcipline, the *Drum* is the only Inſtrument that the Soldier is to take notice of, and ought well to underſtand theſe ſeveral Beats, or Points of War, *viz.*

1. A *Call.*	4. A *Preparative.*
2. A *Troop.*	5. A *Battalia.*
3. A *March.*	6. A *Retreat.*

Beſides theſe, there are two other Beats of the Drum, *viz.*

7. A *Tato.*	8. A *Revally.*

The *Tato*, (as ſome call it) but rather *Tapto*, that is, to ſhut or make faſt your Doors, for when this is beaten, all perſons ought to repair to their private reſt, whether in Leaguer or Gariſon.

The Watch being then ſet, and the *Tapto* being returned to the Corps due Guard, there is a Warning-piece diſcharged; after which, no perſon ought to be out of their Quarters, or from their Poſts, without the Word be given them; by which means the Garriſon or Leaguer will be in quiet.

So

So that all private Watches and Sentinels may more distinctly perform their Duty to the safety of the Garrison or Leaguer.

A *Revally* is beaten in the Morning by break of day, (I suppose it comes from the *French* word *Reveiller*, to awake from Sleep) at which time the Sub-Officers usually take off their out Sentinels.

These two last spoken of (as I suppose) cannot be said to be Points of War, but only private Directions for a Garison or Leaguer; the one to give notice at what time the Garison or Leaguer ought to be at rest and quiet, the other to shew the hour that the Gates shall be set open for all Commerce.

Now as you may learn for what end these six several Beats of the *Drum* are made use of, observe *Barriffe*.

Barriffe *in his Military Discipline*, p. 5.

First, By a *Call*, you must understand to hear present Proclamation, or else to repair to your Ensign.

Secondly, By a *Troop*, understand to shoulder your *Musket*, to advance your *Pike*, to close your *Ranks* and *Files* to order, and troop along with

(or follow) your Officer to the place of Randezvouze, or elſewhere.

Thirdly, By a *March* you are to underſtand, to take your *Open Order* in Rank, to ſhoulder both *Muſket* and *Pike*, and to direct your March either quicker or ſlower, according to the Beat of the *Drum*.

Fourthly, By a *Preparative* you are to underſtand, to cloſe to your due diſtance for Skirmiſh both in Rank and File, which diſtance you ſhall underſtand hereafter, and then to make ready, that ſo you may execute upon the firſt Command.

Fifthly, By the *Battel* or *Charge* underſtand, the continuation or preſſing forward in order of Battel, without laging behind, rather boldly ſtepping forward in the place of him that falls dead or wounded before thee.

Sixthly, By a *Retreat* underſtand, an orderly retiring backward, either for Relief, advantage of the Ground, or for ſome politic end; as to draw the Enemy into ſome Ambuſhment, or ſuch-like: So that for the *Drum*, it is the Voice of the Commander, the Spur of the Valiant, and the Heart of the Coward. So far *Barriffe*.

As

As for the Antiquity of the *Drum*, is is ſaid, that *Bacchus* was the firſt Inventor of it, and ſo from Age to Age it hath been thought a fit Inſtrument for the Service of the Foot; as you may read at large in theſe ſeveral Authors mentioned in the Margin.

Polyd. lib. 1. in Bac. §. 1. Curtius, lib. 8. 372. Plutarch. in Craſſo. App. in Parthicis 143.

And not only the *Drum* was thought a fit Inſtrument alone for the Foot, but they were allowed ſome other pleaſing Inſtrument to delight and tranſport the Spirits of the Soldiers; as the *Flute*, *Harp*, and *Pipe*.

* *Plutarch* much commending the *Lacedemonian* manner of joyning with their Enemy, ſaith, When the King hath offered the *Goat* (that was the *Lacedemonian* Sacrifice when they were to give Battel) he ſtreight Commands all the Army to Crown their Heads, and the *Flutes* to ſound the Meaſure of ‖ *Caſtor*; and himſelf withall beginneth the † fifth *Pæan*, the Song they uſed when they went to Charge, at the firſt advancing againſt the Enemy. So that it is a brave, and no leſs fearful thing (ſaith he) to behold them pacing according to the meaſure of the *Flute*, neither diſturbing their Order,

* *Plutar. in Lycurgo.*

‖ *For this Meaſure, ſee* Jul. Pollux, *l.* 4. *c.* 10. §. 2.

† *Pæan is a Hymn proper to* Apollo, Jul. 1. Pollux, *l.* 1. c. 1. §. 33.

Order, nor shewing any astonishment of Mind, but mildly and joyfully approaching the danger of Conflict, dividing out their March to the sound of the *Flute*; for it is not likely, that Men so demeaning themselves, can be transported with Fear or Choller; nay, rather they must needs have a setled Mind full of Hope and Assurance, as if God were on their side. Thus *Plutarch.*

Thucyd. l.5.393 A. The *Lacedemonians* likewise used *Flutes*, and made them their Instruments to measure out as it were the steps of War, for they used an easie and slow pace, framed to the cadence of the sound.

Athenæus Deipnosoph. l.12. 517 A. *Athenæus* rehearseth out of *Herodotus*, that the *Lydians* used the like Instruments to Dance as it were the Measures of War by. And he addeth, that the *Cretians* made choice of the *Harp* for their Instruments of War, as though it had been peculiar to that Nation.

Pausan. in Lacon. 193. *Pausanias* testifieth the like of the *Lacedemonians*, that they brought in *Flutes* and Measures into the War; and we are not ignorant, that in our late

late unhappy Wars, both in *Ireland* and *Scotland*, how much the Northern Pipe was uſed, being a very ſhrill and loud Pipe, and much ſurpaſſing the *Flute* for its ſhrilneſs, in pacing out the Meaſures of War with delight to the Soldiers; for I have heard ſome judicious Commanders affirm, That they did believe, the Pipes did much tranſport the Valour of the Soldiers: So that they had a ſufficient Pay allowed them, even equal with the *Drum*.

CHAP. XI.

NOW that our Soldiers have attained ſome ſmall knowledge in the uſe of their Arms, and rightly underſtand the Beats of the Drum; it will be expedient in the next place to ſhew them the ſeveral Diſtances, which are theſe four, *viz.*

Cloſe Order	which is both in Rank and File	1 Foot ½.
Order		3 Foot.
Open Order		6 Foot.
Double Diſtance		12 Foot.

There

There is ſeveral Diſtances to be performed in,

First, *March.*
Secondly, *Motion.*
Thirdly, *Skirmiſh.*

The diſtance of *March* between File and File is 3 Foot, and between Rank and Rank 12 Foot.

The diſtance of *Motion* between File and Rank is 6 Foot.

The diſtance for intire *Doublings* and *Skirmiſhes* between Rank and File is 3 Foot.

The diſtance for prevention of *Cannon Shots*, is between File and File 12 or 24 Foot, which is the *Double-Double Diſtance.*

For to deliver unto you the opinions of ſeveral ancient Commanders concerning *Diſtance*, will be needleſs, it being ſufficiently made plain by ſeveral eminent Authors; but to proceed with all brevity poſſible to the words of Command, which are as followeth.

The

The Company being upon the Ground, at their *Open Order* you may

Command.

Ranks, *Close forward* } *to Order.*
Files, *Close inward* }

Ranks, *Close forward* } *to Close Order.*
Files, *Close inward* }

Ranks, *Open backwards* } *to Order.*
Files, *Open to the Right* }

Ranks, *Open backward* } *to Open*
Files, *Open to the Left* } *Order.*

Ranks, *Open backward* } *to Double*
Files, *Open outward* } *Distance.*

Ranks, *Close forward* } *to Open Order.*
Files, *Close inward* }

Note, That *Close Order* is useful for the Pikes to be at upon the Charge to the Horse, or for any manner of Wheeling; or when the Commander is to deliver somewhat of Concernment to the Soldier.

But if any one have a desire to be farther satisfied concerning *Distance*, let

let them read *Barriffe*, *Ward*, *Ven*, and *Elton*, who have ſufficiently treated of this Subject at large; it being my deſign only to model an Exerciſe with as much abreviation as poſſible, being it is only intended a Pocket-Book for the benefit of the young Soldier.

CHAP. XII.

BEfore I come to ſhew the variety of *Facings* in the Action, I think it will not be amiſs to define unto you what is meant by *Facing*.

Facing is a particular turning of the Aſpect from one part to another, whereby the Front proper becomes the Front accidental, and a Front accidental may be reduced to his proper Front. The words of Command take as followeth.

Command.

Face to the { *Right*, *Left*, *Reer*, *Front*, *Center or midſt* } *As you were.*

Com-

Command.

Face to the { Front and Reer / Right and left outward / Right and left inward / Midst of Files / Midst of Ranks } As you were.

Command.

To the { Right / Right / Right / Right / Right about / Left about } As you were.

Command.

To the { Left / Left / Left / Left / Left about / Right about } As you were.

Com-

let them read *Barriffe, Ward, Ven,* and *Elton,* who have ſufficiently treated of this Subject at large; it being my deſign only to model an Exerciſe with as much abreviation as poſſible, being it is only intended a Pocket-Book for the benefit of the young Soldier.

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Command.

Face to the	*Right*	*As you were.*
	Left	
	Reer	
	Front	
	Center or midſt	

Com-

Command.

Face to the	Front and Reer	As you were.
	Right and left outward	
	Right and left inward	
	Midst of Files	
	Midst of Ranks	

Command.

To the	Right	As you were.
	Right	
	Right	
	Right	
	Right about	
	Left about	

Command.

To the	Left	As you were.
	Left	
	Left	
	Left	
	Left about	
	Right about	

Com-

Command.

Half Files	*Right*	*As you were.*
	Left	
	Right and left outward	
Face to the	*Right about*	
	Left about	
	Right and left inward	

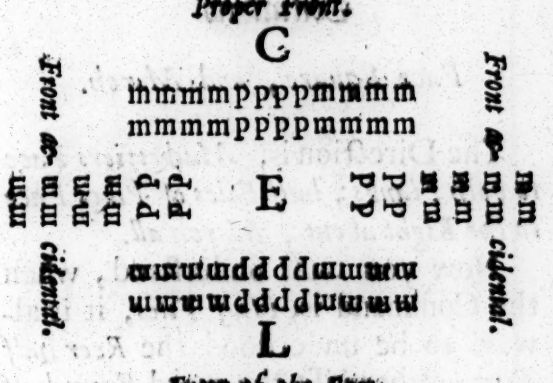
There is alſo a *Facing* which cauſeth the Body to Face to the *Front*, *Reer*, and both *Flanks*, which ſome call *Facing ſquare*; of which I will prick ſome few Figures of *Facings*, which will be ſufficient to demonſtrate all the reſt to an ingenious fancy.

Command.

Face ſquare, and March.

The Direction is, Two firſt Ranks *ſtand*, the two laſt Ranks *Face about*, the reſt of the Body *Face to right and left*, then *March all.*

Proper



When your Soldiers begin any Motion, let them Advance their *Pikes*, and Shoulder their *Muskets*.

Now to reduce this Figure to its first Order,

Command.

Face all about to the Right.
March, and Close your Divisions.
To your Leader; who stands at the proper Front.

To Face Square another way, and March upon it.

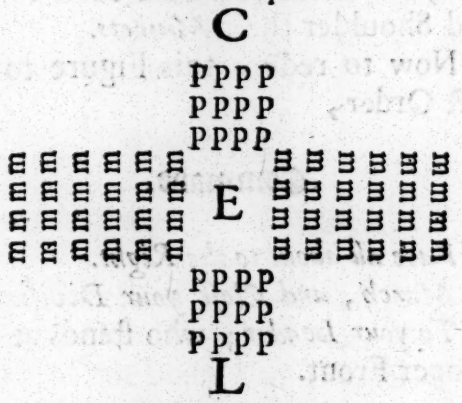
Command.

Face Square, and March.

The Direction is, *Musketiers Face to both Flanks; half Files of Pikes Face to the Right about; March all.*

Now you must understand, when the Command is, *Half Files*, it is always to be understood the *Reer half Files*; otherwise the word *Front half Files* is commanded.

Front Proper.



Front of the Reer.

To reduce this Figure to its former Order,

Com-

Command.

Face all to the Right about.

March, and Close your Divisions.

To your Leader; and they are reduced.

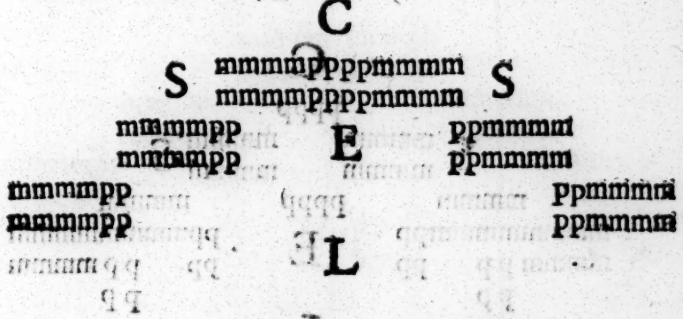
Take another Figure of Battel produced by *Facing*.

Command.

The two first Ranks stand; the rest Face outward, and move clear of the standing part.

The two last Ranks move outward sideways two Paces.

To your Leader.

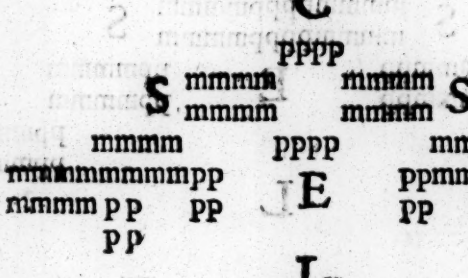


They may give Fire to the Front, or to the Reer, or to both Flanks, or to all four at once, falling in the Reer of their own Divisions; this according as the Captain pleaseth to Command.

Command.

Front Division advance forward three paces; the two next Divisions move outwards one pace; Pikes in each Division face about, and move two paces; to your Leader.

Divisions of Musketiers in the Reer advance forward, and range even in Front and Reer, with the middle Divisions of Pikes; the first Rank of Pikes in the front Division move three foot clear of the standing part.



They

They may give Fire in the Front, or in the Reer, or to both Flanks, or to all four at once.

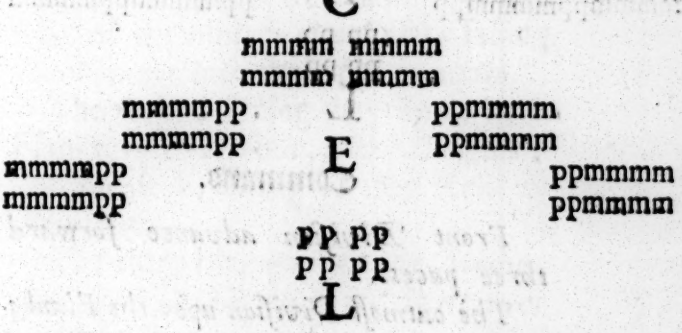
Command.

The first and last Rank of the first Division of Pikes, Face about, and move down clear of the Reer, and close Ranks forward to Order.

Outmost Divisions of Muskettiers face about, move down, and flank your own Divisions of Pikes.

The first Division of Pikes move forward, and range even a Breast with your own Division of Muskettiers.

The front Division of Muskettiers close into the midst to Order.



As for firing upon any of these Figures, the Captain may use his own discretion, either to Front Reer, or both Flanks, or to all at once.

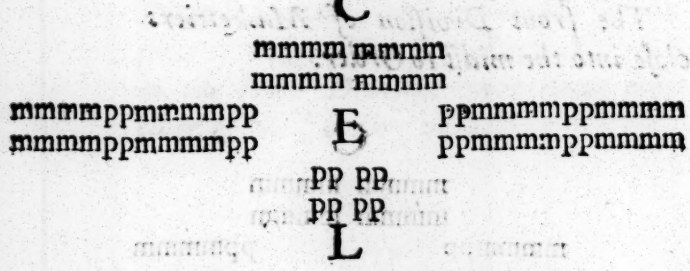
Command.

The outmost Divisions face outward, and move two paces.

Face to your Leader.

Move up, until you range even a Breast with the second Divisions next the Front.

Reer Division, move streight forward two paces.

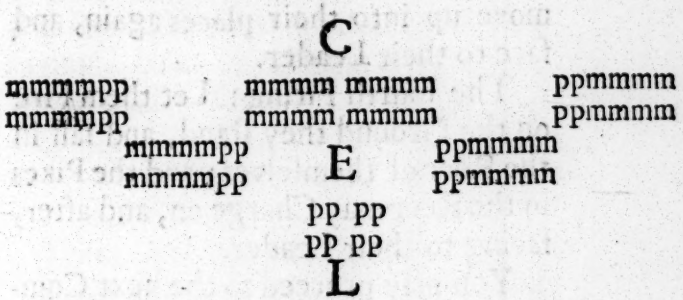


Command.

Front Division advance forward three paces.

The outmost Division upon the Flanks move up, and range even with the Front.

DIRE-



DIRECTION.

For the first Firing upon this Figure, let them all face to the Reer, and the middle Division of *Musketiers* move forwards, and flank the Reer Division of *Pikes:* After, let all the *Musketiers* advance forwards three Foot clear of their own Divisions of *Pikes*, and give Fire, falling in the Reer of themselves; and after facing about, move into their places again.

The second Firing may be to both Flanks, or to all four, as the Commander pleaseth, falling in the Reer of themselves.

The third Firing: Let the *Musketiers* upon the Flanks move down even with the Reer, and give Fire, and fall

in the Reer of themſelves; and after, move up into their places again, and face to their Leader.

The fourth Firing: Let them Fire on the Ground they ſtand, and fall in the Reer of themſelves; and the Pikes in the Reer may Charge on, and after, facing to their Leader.

You may proceed to the next Command, which will be as followeth.

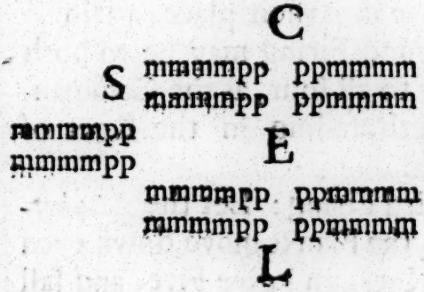
Command.

The outmoſt Diviſions face inward, and march three paces.

The next two Diviſions face outward, and move two paces.

To your Leader.

Reer Diviſion, move outward, until you ſtand ſtreight with the front Diviſions.



You

You muſt note, That the Front and Reer Diviſions of *Muſketiers* by Firing, have interchang'd Ground, which cauſes this

Reducement.

Front Diviſions face about.

Front and Reer Diviſions march, and interchange Ground.

To your Leader.

The outmoſt Diviſions face inward, and cloſe your Diviſions.

To your Leader.

Even your Ranks, and ſtreighten your Files, and cloſe to Order: They are reduced.

CHAP. XIII.

NOW our Soldiers being ſomewhat expert in the true uſe, and handling of their Arms, and likewiſe in the ſeveral Beats of the Drum, together with the Diſtances, Facings, and other Dignities of Place thereunto belonging, it will be convenient to draw them into the Field; but it will

will be convenient to ſhew, 1. How to march a Company to the Field. 2. How to draw them up into a Body. Laſtly, To inſtruct them in the ſeveral Doublings, Counter-marches, and Wheelings. All which ſhall be performed by ſix days Exerciſe, every days Exerciſe being digeſted into ſeveral Figures and Forms of Battel, with their ſeveral ways of Firing, Doubling, Counter-marches, and Wheeling, upon every Form and Figure of Battel.

Of Marching a Company in Diviſions: The Order and Places of the Officers and Drums.

IN Marching, the Officers are to obſerve the Ranks to be at 12 Foot diſtance, and that the Files be cloſed to *Open Order.*

The *Soldiers* muſt always begin to march with their right Foot firſt, which is obſer-

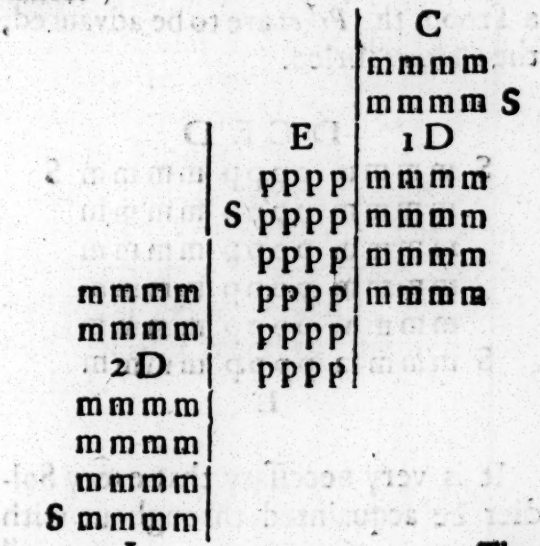
observed to conduce most to the keeping of due Order in Ranks.

The *Captain* is to march with his Pike shoulder'd.

A *Lieutenant* to march with a Partizan:

And an *Ensign* to march with his Pike comported, which is the distinction between the *Captain* and other Officers.

The *Serjeants* have no place assign'd them in marching, but are to be moving up and down, to observe that the Ranks and Files be at their due Distance.



The

The *Drums* are to fall in behind the two first Ranks of each Division of *Musketiers*, and to Beat between the second and third Rank. When drawn up into a Body, they are to place themselves in the first Rank even with the Front, between the interval of *Muskets* and *Pikes*.

The *Ensign* is to place himself six Foot before the Body of *Pikes*, both upon a March, and when drawn up into a Body. So long as the *Drum* beats a March, they are to be drawn up with their Arms shoulder'd, the *Colours* flying; but if the *Drum* beat a Troop, the *Pikes* are to be advanced, the *Colours* furled.

D C E D

S m m m m p p p p m m m m S
m m m m p p p p m m m m
m m m m p p p p m m m m
m m m m p p p p m m m m
m m m m p p p p m m m m
S m m m m p p p p m m m m

L

It is very necessary that every Soldier be acquainted throughout with all

all the parts of a Body of Men drawn up, with their ſeveral Extents and Bounds, and with the true underſtanding of the ſame: Where firſt note, although you have been ſhewed the deſcription both of *File* and *Rank*, with their Number, Place, and Dignity belonging to each; yet there is more Parts belonging to a Body of Men drawn up, than only *Ranks* and *Files*.

As firſt, a *Front*, a *Reer*, a *Right Flank*, and a *Left Flank*: There is alſo *Front Half-Files*, and *Reer Half-Files*, *Right Half-Ranks*, and *Left Half-Ranks*: There is the length and depth of the Battel, every one of which have their particular Extents and Bounds, according to their number of Men. All which is plainly ſet forth in the following Figure. *Vide Cap. Of Facing*

The Front of which Figure is firſt of all to be taken notice of: There are in all Exerciſes a *Proper Front*, and an *Accidental Front*, which is, when all the Company faces to the left, or the like.

FRONT.

| The Left Flank. | | |

CHAP. XIV.

The first Days Exercise.

HAving brought your Company into a place convenient, where you intend to Exercise them, you may cause the *File-Leaders*, *Corporals*, or *Serjeants*, to instruct them in the Postures, and true handling of their Arms; which being performed, upon the Summons of the Drum, each File-Leader with his File is to march into his place.

The *Captain* (or other Commander) being at the Head of his Company, Commands them to even their Ranks, and streighten their Files, and to stand to their *Open Order* both in Rank and File. If your *Ensign* be not already in the Field, Command a *Serjeant* with a Drum, and either two or more Files of Pikes, with two Files of Shot, if necessary, that the *Colours* be far off, to guard the *Ensign* to the place of Rendezvouz. This being performed, and every Man in his place, the

the *Captain* (or other Commander) after ſilence, begins firſt to inſtruct the Soldiers in their ſeveral Diſtances betwixt Rank and File, with the ways to open and cloſe to them; next in the Facings, then in the Doublings; which ſhall be theſe following.

The Ranks that double are to obſerve their Right-hand Man, to move at the ſame time with him. They begin their Motion with the Foot, next the Hand named, which Motion is to be performed at three Steps; in doubling the even Ranks, double the odd. Files doubling is performed in the ſame manner, and is the ſame thing with Reduction of doubled Ranks. The Reduction of doubled Files is the ſame thing with doubling Ranks.

To double half Files upon a March, let your Reer half Files move into the Front with a quicker Motion, the Front half Files continuing theirs.

For Reduction, let the Reer half Files ſtand without Facing, 'till the Front half Files have paſſed them, and then fall after their proper Leaders.

Note, That the Letter *C.* ſtands for *Command*, the Letter *R.* for *Reduce-ment*.

Note,

Note, That no Leader is tied to obſerve all theſe Doublings in his Exerciſe at once, but to uſe as many of them as he ſhall think fit.

The words of Command for all entire Doublings to the Front.

C. *Ranks*, to the Right double. March.

R. *Files*, to the Left double. March.

C. *Ranks*, to the Left double. March.

R. *Files*, to the Right double. March.

C. *Ranks*, to the right and left, double outward.

R. *Files*, to the right and left, double inward.

C. *Ranks*, to the right and left, double inward.

R. *Files*, to the right and left, double outward.

C. *Ranks*, as you were.

C. *Half-Files*, double your Front to the right.

R. *Files*, double your Depth to the left.

C. *Half-Files,* double your Front to the left.

R. *Files*, double your Depth to the right.

C. *Half-Files*, double your Front to the right and left outward. March.

R. *Files*, double your Depth to the right and left inward. March.

C. *Half-Files*, double your Front to the right and left inward. March.

R. *Files*, double your Depth to the right and left outward. March.

C. *Bringers up*, double your Front to the right. March.

R. *Files*, double your Depth to the left, every Man falling behind his *Bringer up.*

C. *Bringers up*, double your Front to the left.

R. *Files*, double your Depth to the right, every Man falling behind his *Bringer up.* March.

C. *Bringers up*, double your Front to the right and left outward. March.

R. *Files*, double your Depth to the right and left inward, every Man falling behind his *Bringer up.* March.

C. *Bringers up*, double your Front to the right and left inward. March.

R. *Files,*

R. *Files*, double your Depth to the right and left outward, every Man falling behind his *Bringer up*. March.

C. Double your Ranks to the right entire.

R. *Right half Ranks*, double your left Flank.

C. Double your Ranks to the left entire. March.

R. *Left half Ranks* double your right Flank.

C. Double your Ranks inward entire.

R. The inmoſt *Files* double your Flanks to the right and left outward, and after, cloſe.

C. Double your *Ranks* to the right entire, every Man placing himſelf on the outſide of his right hand Man. March.

R. *Right half Ranks* double your left Flank, every Man placing himſelf on the inſide of his left hand Man. March.

C. Double your *Ranks* to the left entire, every Man placing himſelf on the outſide of his left hand Man. March.

R. *Left half Ranks* double your right Flank, every Man placing himſelf on the inſide of his right hand Man. March.

C. *Half Files*, double your Front to the right entire. March.

R. Right half Ranks, double entire the depth of your left Flank. March.

C. *Half Files*, double your Front to the left entire. March.

R. *Left half Ranks*, double entire the depth of your right Flank. March.

C. *Half Files* double your Front inward entire. March.

R. The inmoſt *Files* double entire the depth of the outmoſt Files, and after, cloſe. March.

Note: Every even *Rank* from the Front face outward, and double the odd. Mareh.

Next follows, to ſhew ſome Diviſional Doublings by the ſame.

C. Double your *Ranks* to the right and left by Diviſion. March.

R. The outmoſt *Files* upon each Flank that moved, face inward, and ſtrengthen the Body. March.

C. Dou-

C. Double your *Ranks* to the right and left by Diviſion, every Man placing himſelf on the outſide of his right and left hand Man. March.

R. The outmoſt *Files* upon each Flank that moved, double the inmoſt Files to the right and left inward, every Man placing himſelf on the inſide of his right and left hand Men. March.

C. *Half Files*, double your Front by Diviſion. March.

Half Files face outwards, and march clear of the Body, face to your Leader, move up, and double the Front.

R. The outmoſt *Files* upon each Flank that moved, double entire the depth of the inmoſt Files. March.

Entire Doublings to the Front by Wheelings.

C. Wheel off your *Reer half Files*, and double your Front to the right entire. March.

Half Files, face about, and wheel to the left.

R. Wheel off your *Right half Ranks*, and double your left Flank entire to the left.

C. Wheel off your *Reer half Files*, and double your Front to the left entire.

Face outward, and *Left half Ranks* wheel about to the left.

R. Wheel off your *Left half Ranks*, and double your right Flank to the right entire.

C. Wheel your *Reer half Files* inward into the midſt, and double your Front inward entire. March.

R. The inmoſt *Files* that doubled, wheel about to the right and left outward, and double entire the depth of the outmoſt Files; after, face to your Leader, and cloſe Files to the midſt to order.

Diviſional Doubling to the Front by Wheeling.

C. Wheel off your *Reer half Files*, and double your Front by Diviſion. March.

R. The outmoſt *Files* upon each Flank that doubled, wheel about to the

the right and left inward, and double entire the depth of the inmoſt Files; face to your Leader. March.

CHAP. XV.

Of Converſion and Inverſion, with ſome few words of Command, and Reducements.

THE difference betwixt *Inverſion* and *Converſion* is this; *Inverſion* doth always produce File or Files, and *Converſion* Rank or Ranks: *Inverſion* conſiſts of Files filing, or of Ranks filing; *Converſion* of Ranks ranking to the right, or to the left, or by increaſe of Files, ranking by even or uneven parts.

Note: That what is commanded to the Right, the ſame may be performed to the Left.

The words of Command for Inverſion, *are as followeth.*

C. *Files*, file to the right.
R. *Files*, file ſix to the left.

C. *Files,* file to the right and left by Diviſion.

The right hand File ſtands, the reſt move away, placing themſelves in a direct File before the Front.

R. *Files,* file ſix to the right and left.

C. *Files,* file to the right entire advancing.

R. File ſix to the right towards the Front.

C. *Files,* file inward into the right Flank.

R. *Front half Files,* file three to the left; *Reer half Files,* face about, and file three to the right; face to your Leader, and cloſe your Diviſions.

C. *Files,* file to the right by Diviſion.

R. *Front half Files,* file three to the right, and *Reer half Files* face about, and file three to the left; face to your Leader, and cloſe your Diviſions.

C. *Files,* file inward into the right and left Flank by Diviſion.

R. *Half Files,* face about to the right; *Front* and *Reer half Files,* file three to the right and left inwards; face to your Leader, and cloſe your Diviſions.

[For filing inward, the *half Files* are to face about, and ſo the left hand File of the Reer, and right of the Front, are to move away 'till they become one File.

Filing by Diviſion is the ſame, only the right hand File ſtands, the reſt move away.

Filing inward into the right Flank by Diviſion, *half Files* are to face about; then the *File-Leaders*, and *Bringers up* of the right and left, are to lead, and ſo ſucceſſively fall into the Reer of each other.]

Of Ranks filing.

Ranks filing is ſooner perfoſmed and reduced, than *Files* filing, and will be more ready to make reſiſtance againſt any oppoſition in the Front.

C. *Ranks*, file to the right, or to the left, placing your ſelves behind your right hand Men.

Direction. If they be upon a ſtand, they may open to their diſtance each Ranke, and ſo place themſelves behind their right hand Men.

If

If upon a March, as to paſs ſome narrow Defile, the readieſt way to perform it, and draw up in order again as ſoon as paſt, is to make the Ranks file; if to the right, the right hand Man files firſt, and the reſt of his Rank follow him, 'till the Defile be paſt.

For larger Defiles, the Commander draws off as he judges the way will eaſily receive.

R. *Files*, rank as you were.

Tactics of Ælian, c. 30. p. 6.

C. *Ranks*, file to the right and left by Diviſion.

Direction. It is the ſame with the laſt, differing only in this; the *half Ranks* to the left, fall behind their left hand Men to the left; the *half Ranks* to the right, behind their ſeveral right hand Men.

R. *Files*, rank to the right and left inward, as you were.

The words of Command for Converſion, *are as followeth.*

C. *Files*, rank three to the right.

Direction. In this Motion the *File-Leader* is firſt to move to the Hand com-

commanded, and the *half File-Leader* is to advance the ſame way.

R. *Ranks*, file as you were.

C. *Files*, rank ſix to the left. March.

Direction. In this Motion cloſe Ranks forward to order, and open Files to double Diſtance; then let every Man in his File move up to the left of his *File-Leader*, ſo every File will become one Rank: This, if the Company be ſmall, will make it ſeem more large, *Battalion* like.

C. *Ranks*, rank outward into the Front.

Direction. The firſt Rank ſtand, the reſt face outward, placing your ſelves ſucceſſively into the Front; after, face to your *Leader*.

R. *Ranks*, rank twelve to the right and left inward, as you were.

C. *Ranks*, rank inward into the Front.

Direction. The firſt Rank is to move away to the right and left, the next Rank moving up into his ground, doing the like, and ſo all the reſt, until the laſt Rank be come up entire into the Front.

The twelve middlemoſt men ſtand, which is the firſt Rank, the reſt move ſucceſſively after the firſt Rank.

R. *Ranks*,

R. *Ranks*, rank ſix to the right and left outward.

Direction. The firſt ſix upon the right, and the firſt ſix upon the left, ſtand, the reſt move outward, falling in the Reer of the firſt Rank, ranking ſix to the right and left; and after, cloſing their Diviſions.

C. *Files*, rank to the right into the Front.

Direction. Open to the left to your double Diſtance, and Ranks cloſe forward to cloſe Order, and move up to the right into the Front.

R. *Ranks*, file ſix to the left.

Direction. To perform which, the firſt ſix upon the left are to fall into a File, the reſt doing the like, until they are all converted into Files.

This Ranking is by Countermarch.

C. *Ranks*, rank outward into the Front, every Man placing himſelf on the outſide of his right and left hand Man.

Direction. The firſt Rank ſtand, the reſt move forth to the right and left ſucceſſively, and advance into the Front, every Man placing himſelf on the outſide of his right and left hand Man.

R. *Ranks*,

R. *Ranks*, rank twelve to the right and left inward, every Man placing himſelf on the inſide of his right and left hand Man.

Note: *The twelve middle men are to ſtand, the reſt to move ſix to the right hand, and ſix to the left inward.*

C. *Ranks*, rank inward into the Front, every Man placing himſelf on the inſide of his right and left hand Man.

Direction. Right and left *half Ranks* open from the midſt to twice double Diſtance, the firſt Rank of each Diviſion is to ſtand, the reſt are to move to the right and left inward into the Front.

R. *Ranks*, rank ſix to the right and left outward, every Man placing himſelf on the outſide of his right and left hand Man; and after, to cloſe their Diviſions.

C. *Files*, rank to the right, by wheeling into the Front.

Direction. Files, open to the left to your double Diſtance; *Ranks*, cloſe forward to your cloſe Order; face to the right, and wheel 'till all the whole Body be brought into one entire Rank.

R. *Ranks*, file as you were.

C. *Files*, rank into the Front and Reer by Diviſion.

Dire-

Direction. Files, open to the left to your open Order; *Ranks*, close forward to your close Order; *half Files* face about to the right and left; then move all in Front and Reer, and make two entire Ranks.

Observe that those in motion are to face to the right Flank.

R. *Front half Files*, face about to the left; *Reer half Files*, face about to the right; then wheel *half Files* into the midst as they were; then face them to their Leader, and close their Files at discretion.

This may be observ'd with any even number.

C. *Ranks*, rank two to the right.

Direction. The two first in Rank advance forwards to the right; the next two in the Reer of them, until the first Rank have performed the Command; all the rest of the Ranks is to perform the like.

R. *Ranks*, rank as you were.

C. *Ranks*, rank two to the right and left outward.

Direction. The two outmost Men upon the right and left hand advance forwards; the next in the same Rank are to follow, dividing themselves two to the right hand, and two to the left, 'till the Motion be finished.

R. *Ranks*,

R. *Ranks*, as you were: Or Rank twelve to the right and left inward.

C. *Ranks*, rank two to the right and left inward.

Direction. The two inmoſt Men of the right and left hand in the midſt of the Battel, advance forwards; the next in the ſame Rank are to follow two from the right hand, and two from the left, until all have performed the Command.

C. *Ranks*, rank 1, 3, 5, 7, 9, *&c.* by increaſe and decreaſe, as they ſtand in a Body.

Direction. The right hand Man of the firſt Rank march forth; then the three next of the ſame Rank follow him; then five more out of the ſame Rank to make the third; and what is wanting in the firſt Rank of the Body, to make good the fourth in Figure, muſt be taken out of the ſecond in Body; and ſo to proceed in the remainder, both for its increaſe and decreaſe, until your Command be produced.

R. *Right hand Men*, Rank as you were.

C. *Ranks*,

Obſerve, they are to be at double Diſtance in Rank, and at Order in File.

C. *Ranks*, rank to each Flank, by wheeling to the right and left into the ſame by Diviſion.

Direction. Face them to the Reer, and then let them wheel into their places.

R. *Ranks*, rank as you were; face to your Leader.

But if you would avoid mixture of Arms, you may place all your *Muſkettiers*, either in Front and Reer, or elſe wheel only the *Muſkettiers* firſt, and leave the *Pikes* ſtanding: Otherwiſe it may be performed in marching, and then the Reducement as before, Rank as you were.

Note: *They are to obſerve the ſame diſtance as in the former Command.*

C. *Ranks* of your *Front* and *Reer half Files*, wheel outwards to your right and left Flank by Diviſion.

Direction. Half Files, face about; *Ranks*, open to your double Diſtance; then *Front* and *Reer half Files*, wheel to the right and left outwards into both Flanks.

R. *Front* and *Reer half Files*, face to the right and left inwards, and Rank as you were; and cloſe Ranks forward to order.

C. *Files*,

C. *Files*, rank three firſt, then by increaſe to the Right two, in each Diviſion of *Muſketiers* and *Pikes*. *Theſe are termed half Rhombs, or Wedges.*

R. *Ranks*, file as you were.

C. *Files*, rank firſt two, and by increaſe two from the whole Body. *You may make a Wedge of all together.*

R. *Ranks*, file as you were.

Note: You may alter the mixture of Arms at pleaſure.

C. *Files*, rank firſt two, and by increaſe and decreaſe two in each Rank diviſionally, both of *Muskets* and *Pikes*. *Tacticks of Ælian, pag. 108.*

R. *Ranks*, file as you were.

CHAP. XVI.

Of Countermarches, *with their ſeveral ſorts and kinds.*

THE next branch of Diſcipline which offers it ſelf, are *Countermarches*, which we read (in the Tacticks of *Ælian*) were of uſe amongſt the *Grecians* and *Perſians*, only theſe three kinds, to wit, *Tacticks of Ælian, cap. 28.*

1. The *Chorean*, maintaining ground.
2. The *Lacedemonian*, losing ground.
3. The *Macedonian*, gaining ground.

The distance for *Countermarch* is open Order in Rank and File.

Note: When there is a *Countermarch* commanded without any other addition, then it is always intended a *Chorean Countermarch.*

The Chorean.

C. *Files*, to the right hand Countermarch.

Direction. The word of Command being given, all the *File-Leaders* step forwards with their right Legs, and face about to the right, every *File-Leader* with his File following him towards the Reer, passing through the interval on his right hand, observing to keep even in Rank with his right hand Man, and not to turn, until he come to the ground where at first his *File-Leader* began the Motion: The Command is performed when the *Bringers up* have attained unto the place

place where before their *File-Leaders* ſtood?

R. *Files*, to the left hand, Countermarch.

C. *Ranks*, to the right hand, Countermarch.

Direction. Face them to the right, then the right hand File is to turn off to the right, and to march even to the Ground of the left hand File.

R. *Ranks*, to the left hand, Countermarch.

Note: That any entire Countermarch of Files and Ranks will be reduced, by making another entire Countermarch to what hand ſoever; but if you deſire to have them not only reduced to the ſame Aſpect, but alſo preciſely to the ſame place; then if the Countermarch be to the right, Countermarch again to the right, ſo to the left.

C. Countermarch *Front* and *Reer* into the midſt.

Direction. Half Files face about, and turn off to the left; *Front half Files* turn off to the right, and face to your Leader.

R. Countermarch your *Front* and *Reer* into the midſt again, will reduce the laſt Command; or elſe by any other Diviſional Countermarch of Files.

C. Front and *Reer half Files* Countermarch to the right.

Direction. Front half Files Countermarch to the right, following your *File-Leaders*; *Reer half Files* Countermarch to the right, following your *Half File-Leaders.*

R. Countermarch *Front* and *Reer* into the midſt; then face to the firſt Front, and they are reduced.

C. Countermarch your *Flanks* into the midſt.

Direction. Face to the right and left outwards; the *right Flank* turn off to the right; the *left Flank* turn off to the left; March, and cloſe your Diviſions.

R. Countermarch your *Flank* into the midſt again, and they are reduced.

C. Right and left *half Ranks* interchange your Ground.

Direction. Face to the right and left inward; March, and interchange your Ground; face to your *Leader.*

R. In-

R. Interchanging of Ground back again, will reduce them; or Diviſionally to Countermarch their *Flanks* into the midſt of the Battel.

The Lacedemonian *Countermarch loſing Ground.*

C. *Files*, to the right hand Countermarch, placing your ſelves before your *Bringers up*; to your *Leader*.

Direction. Bringers up, face about to the right; the reſt Countermarch to the right, every Man turning on the Ground he ſtands, following their *Leaders*, placing themſelves before their *Bringers up*.

R. *Bringers up*, ſtand; the reſt paſs through to the right, and place your ſelves before your *Bringers up*.

C. *Files*, to the right hand Countermarch, every Man turning on the Ground he ſtands.

Direction. The *File-Leaders* of each File are to ſtep ſideways to the right, and ſo march even in Rank together, every Man following his Leader, and turning on the Ground he ſtands.

R. *Files* to the left hand Countermarch, every Man turning on the Ground he ſtands.

C. *Bringers up*, face about to the right; the reſt paſs through to the right, and place your ſelves before your *Bringers up*.

Direction. Face all to the right about; *Bringers up*, ſtand; the reſt of the Body paſs through the right, and place your ſelves before your *Bringers up*.

Note: This Motion is begun by the *Rank*, next the *Bringers up*, and ſo continued ſucceſſively by the reſt, till the Command be ended.

R. This *Countermarch* may be reduced, by doing the ſame to the contrary hand; or if you pleaſe,

C. *Bringers up*, ſtand; the reſt paſs through to the right, and place your ſelves behind your *Bringers up*.

Note: This Command is performed by the *Rank*, next the *Rear*, until the *File-Leaders* become the *Bringers up*; then face them to the proper Front, and they are reduced.

Direction. The laſt Rank (or *Bringers up*) are to ſtand; the reſt of the Body

Body to face to the *Reer*, and paſs through to the right, placing themſelves behind their *Bringers up*; then face them all about after their proper *File-Leaders*, and they are reduced as at firſt.

C. *Ranks*, to the right hand Countermarch, every Man turning after his right hand Man on the Ground he ſtands.

Direction. Face all to the right, which being performed, the right hand *File*, together with all the reſt, becomes *Ranks*, and ſo begin the Countermarch, every *Rank* turning after his right hand Man on the Ground he ſtands, and ſo marcheth forth-right beyond that which was the left *Flank*.

R. *Right hand File*, face to the right; the reſt paſs through to the right, and place your ſelves before your right hand Men.

The Macedonian *Countermarches gaining Ground.*

C. *File-Leaders*, face about to the right; the reſt paſs through to the

right, and place your ſelves behind your *Leaders.*

Note: This Motion beginneth with that *Rank*, next the *File-Leaders.*

Direction. File-Leaders, face about to the right; the reſt paſs through the intervals to the right, and place themſelves behind their *Leaders*, every *Rank* ſucceſſively paſſing through, and taking their places.

R. *File-Leaders*, face to the *Reer*; the reſt paſs through the left, following your *Bringers up*, placing your ſelves behind your *Leaders.*

Note: This *Countermarch* may be reduced as the reſt, by doing the ſame to the contrary hand, or by an entire Countermarch of *Files.*

Direction. File-Leaders, face to the *Reer*; then the *Bringers up* begin the Countermarch, paſſing forward between the intervals, turning on the Ground they ſtand, the (5) following the (6), and ſo likewiſe the reſt until the Countermarch is ended; then face them to their firſt Front, and they are reduced as at firſt.

R. For *Reducement*, obſerve this for all, That any entire *Countermarch* of File

File or Rank, may be reduced by another entire *Countermarch* by File or Rank, of what kind, or to what hand ſoever.

This may ſuffice to be ſpoken of all the ſeveral ſorts and kinds of *Countermarches*, they being the leaſt uſeful of any part of the *Art Military*, and of late not ſo much as practiſed upon Service, either abroad, or at home, very little in any of our Annual Exerciſes: Therefore in the next place I come briefly to treat of *Wheelings*, being a Subject more profitable for the intelligible Soldier.

CHAP. XVII.

Of Wheelings, with their ſeveral Uſes.

BEfore you begin to wheel, cloſe both *Ranks* and *Files* to their Order.

Two things are to be obſerved in all Wheelings by the Soldier: 1. That they keep their due Diſtance, which is in all Wheelings three Foot, both in *Rank*

Rank and *File*. 2. That upon all Wheelings, you muſt be ſure to obſerve your *Leader*, and follow him, keeping your due Diſtance, your *Muſkettiers* being all either ſhoulder'd or palmed, which is the Sentinel Poſture; your *Pikes* to be either ſhoulder'd or advanced, conformable to the *Muſkettier*; for if he be palmed, the *Pike* may be advanced, and then he is ready either for Port or Charge.

Entire Wheelings.

C. Wheel your Battel to the { Right. / Left. / Right about. / Left about.

Direction. The right or left hand Men in the Front are the Hinges of theſe Motions, who with a ſmall Motion move to the right or left; the reſt, the more their places are remote from the right or left Angle, the more ſwift muſt every Man's Motion be to bring their Aſpects unto the place commanded, following their *Leaders*, and keeping their due Diſtance.

R. For

R. For *Reducement*, if you wheel your Battel to the right, wheel it again to the left, and they are reduced, but not to the ſame Ground; if to the right about, wheel to the left about; but if you would reduce them as well to the firſt Ground, as their firſt Aſpect, face them to the right, and then wheel them to the left about; which being done, face them to the left, and they are perfectly reduced as at firſt.

But the neareſt Reducement of Aſpect and Place is, If you wheel to the right about, then wheel to the right about again; if to the left about, then to the left about in like manner.

C. Wheel your Battel on the ſame Ground to the { Right. / Left. / Right about. / Left about.

Direction. Left *half Ranks* move forwards, and wheel to the right; right *half Ranks* contrariwiſe face to the left ſideways, falling backward, moving ſtill unto the place commanded.

C. Wheel

C. Wheel off your *Front* by Diviſion.

Direction. File-Leaders of the right Flank wheel about to the right, the reſt of each File following their *Leaders*; *File-Leaders* of the left Flank wheel about to the left in the ſame manner, and then cloſe your Diviſions.

C. Wheel the Battel off by Diviſion from the *Reer.*

Direction. Face to the *Reer*, and turn off to the right and left.

C. Wheel the Battel inward to the *Reer.*

Direction. Open from the midſt to convenient Diſtance, and turn off to the right and left.

C. Wheel the Battel inward to the *Front* from the *Reer.*

Direction. Face to the *Reer*, open from the midſt, and wheel inward to the *Front.*

C. Wheel off the Body by Diviſion from the *right Flank.*

Direction. Face to the right.

C. Wheel off the Body by Diviſion from the *left Flank.*

Direction. Face to the left.

C. Wheel

C. Wheel the Body inward to the left *Flank* from the right.

Direction. Face to the right, and open to convenient Diſtance outward, and wheel inward to the left *Flank.*

C. Wheel the Body inward to the right *Flank* from the left.

Direction. Face to the left, and open outward to convenient Diſtance, then wheel inward to the right *Flank.*

C. Wheel off your *Front* and *Reer half Files* by Diviſion.

Direction. Half Files face about; *Front* and *Reer half Files* turn off by Diviſion.

C. Wheel your *Front* and *Reer half Files* inward to the midſt of *Ranks.*

Direction. Half Files face about; *Front* and *Reer half Files* open outward to convenient Diſtance; then wheel inward to the midſt of *Ranks.*

C. Wheel off your *Front* and *Reer half Files* by Diviſion from the midſt of *Ranks.*

Direction. Front half Files face about; *Front* and *Reer half Files* wheel off to the right and left by Diviſion.

C. Wheel

C. Wheel *Front* and *Reer half Files* inward, both to *Front* and *Reer* from the midſt of *Ranks.*

Direction. Front half Files face about; *Front* and *Reer half Files* open from the midſt to convenient Diſtance, and wheel inward into *Front* and *Reer.*

C. Wheel off your right and left *half Ranks* by Diviſion.

Direction. Face outward, and wheel off to the right and left by Diviſion.

C. Wheel your right and left *half Ranks* inward to the midſt of *Files.*

Direction. Face outward, and open to the right and left; then wheel inward to the midſt of *Files.*

C. Wheel off your right and left *half Ranks* by Diviſion from the midſt of *Files.*

Direction. Face inward, then move backward to a convenient Diſtance, and ſo wheel off by Diviſion from the midſt of *Files.*

C. Wheel your right and left *half Ranks* inward to both Flanks from the midſt of *Files.*

Dire-

Direction. Face inward, and open to the right and left to a convenient distance, and then wheel inward to both *Flanks*.

These are all the entire and divisional Wheelings that have hitherto been practised by any, there are other Wheelings which may properly be termed Doublings, which I have placed amongst the Doublings, which is most proper.

As for the Reducement of every particular *Wheeling*, you may observe as before in the *Countermarches*, so in these; for unto what hand soever they wheeled, Command them to wheel to the contrary hand, and they will be reduced unto the first Front; or what part is wheeled off by Division, wheel them inward again from that place, and it will easily reduce them.

CHAP.

CHAP. XVIII.

The ſecond Days Exerciſe.

YOUR Soldiers being Commanded the ſecond time into the Field, and the Body drawn up into the ordinary Square, every Officer vigilant in his place, the Captain may command Silence, with ſome other general terms of Obſervation, both for the *Leaders*, and the *Right hand Men*; then to even their *Ranks*, and ſtreighten their *Files*; which being perſormed, he may proceed (as formerly) to ſhew the *Diſtances*, *Facings*, *Doublings*, *Countermarches*, and *Wheelings*, inſtructing them in all, or ſo many of them as the time will permit, and he thinks convenient.

In the next place, that which follows for this days Exerciſe are *Firings*, which ſhall be performed five ways, that is to ſay, To the *Front*, to the *Reer*, to the *right* or *left Flank*, *Oblique* or *Angular*, as ſhall be fully demonſtrated.

So

So ſoon as the *Drum* beats a *Preparative*, the *Muskettiers* are to begin to make ready to perform all *Firings* as they ſhall be commanded.

CHAP. XIX.

Several Firings to be performed with any number of Men upon all occaſions, either to the Front, or to the Reer, or to both Flanks, as followeth.

THE Front being the moſt Honourable part, challengeth Superiority; therefore to begin your Firing, draw all your Shot before your Pikes; when done, command 2 Ranks to advance ten Paces, make ready, Preſent, give Fire, wheeling both off together, and falling in the Reer of themſelves, the reſt doing the like, advancing into their Leaders ground. You may do the ſame with two Ranks advancing ten Paces, or with one Rank advancing three Paces. *These are Firings to gain ground.*

You may likewiſe Fire by Files, advancing what Paces you pleaſe; firſt, ſingle; then double; or ranking inward 1, 2, 3, or more at pleaſure, falling down into their places again.

Likewiſe you may fire by Ranks filing and advancing, moving down, and ranking in the Reer of their own Diviſions.

Fire by Diviſions drawn off as many Paces as you think convenient, returning again into their places.

To Fire by way of Introduction, thus:

The firſt Rank fires, and ſtands; the laſt Rank paſſeth up between the Files, and placing themſelves before the File-Leaders, ſtand, and give Fire; the reſt doing the like, 'till they have all fired over.

To Fire by Introduction another way.

The firſt Rank ſtands, and fires; the next Rank moves up, and places themſelves before the firſt, then ſtands and Fires; the reſt moving up, and doing the like, until they have all fired twice.

The

The Muſkettiers continuing ſtill before the Pikes, command the five firſt Ranks to kneel; the laſt Rank make ready, Preſent, give Fire, ſtanding faſt, and charging again; then command the fifth Rank to ſtand up, Preſent, and give Fire, ſtanding faſt as before: Likewiſe the fourth to do the ſame, and ſo all the reſt, 'till they have all fired over. Then if your pleaſe, you may fire two Ranks together; likewiſe four Ranks together, two kneeling, and two ſtanding upright, falling off. If you think fit, you may fire all ſix Ranks together, two kneeling, two ſtooping, and two ſtanding upright.

Firings maintaining Ground.

To maintain the ſame Ground ſtill, you may fire them by ſingle Ranks, falling off to the right and left by Diviſion, placing themſelves in the Reer of the Pikes.

Then you may Fire by Extraduction, which is, The firſt Rank paſſes from the Reer upon the outſide of the Pikes upon the right, until they have placed themſelves in a Rank before the Pikes, falling off to the left into the Reer, the reſt ſucceſſively doing

This Firing is termed the Street-Firing.

Note: *The Pikes muſt be at Charge.*

the like, until they have fired all over; which being done, you may face them to the right and left outward; then facing them to the Front proper, you may cauſe them to march up, and even the Front of Pikes. Next you may Fire by Ranks ranking into the Front, or Files ranking into the Front, and filing or ranking as they were. After you have fired them by Ranks, you may do the ſame by Files, wheeling outward or inward into the Front, and filing again as they were. Then you may fire by the outmoſt Files wheeling or ranking outward into the Front, falling off likewiſe, being lead off by Bringers up, leading up next the Pikes; this done twice, reduceth.

The proper Firings to loſe ground are theſe following.

Firings to loſe ground.

The Muskettiers being ſuppoſed to be all in the Front, command the firſt Rank to make ready, Preſent, give Fire, falling off to the right and left by Diviſion, each part falling Fileways down cloſe by their Flanks of Muskettiers, until the Leaders of the Ranks of

of Muskettiers have ranked even with the firſt Rank of Pikes, obſerving always to leave an interval between the innermoſt Files of Shot, and the outermoſt Files of Pikes: So ſoon as the firſt Rank hath given Fire, and wheeled away, the ſecond Rank is to do the like, paſſing down between the intervals on the Flanks, placing themſelves after their Leaders. The ſame is every Rank ſucceſſively to do, until they have all fired over, and flanked their Pikes.

The Muskettiers being now all upon the Flanks, command the firſt Rank to make ready, Preſent, and give Fire; after they have fired, command the firſt Rank, both Muskets and Pikes, to Countermarch to the right, every Man turning on the ground he ſtands; the ſecond Rank is to give Fire as they ſtand, obſerving to turn after their Leaders to the right hand on the ground they ſtand, placing themſelves behind their Bringers up, following their Leaders. If you pleaſe, you may Fire even with the half Files, and fall in the Rear of themſelves.

Thus much briefly of Firings to the Front.

Firings to the Reer.

The *Reer* challengeth the next place, where ſuppoſe all the Musketiers to be in the Reer of the Pikes, the Body marching; Fire, 1. To the right or left about, which is thus performed: If the Enemy appear in the Reer, let the laſt Rank of Muskettiers face about, and give Fire, wheeling off by Diviſion Fileways, falling in the Front of their own Diviſions. When the firſt Rank are giving of Fire, the next Rank are to be in readineſs, obſerving always that ſo ſoon as the firſt Rank hath fired, they immediately blow and open their Pans, ſtepping forward with their right Feet, (a little inclining to that hand to which you are to face about) advancing your left Feet, and to the Reer Preſent, giving your Body a nimble turn, and ſo give Fire to the reſt ſucceſſively, doing the ſame at three Motions.

Note: That in this Firing the Reer muſt be kept full, leaving a vacancy of one Rank in the Front for the Rank that fired to place it ſelf, ſtill keeping along

along with the Body; the Muskettiers obſerving always to advance their right Legs, and blow; advancing with the left, open their Pans; then turning upon the Ball of their left Foot to the right about, caſt their right Leg backward, and Fire: This is the nimbleſt way for this Firing.

2. Fire, and fall off to the right and left, and rank with the firſt Rank of Pikes into the Front.

3. Fire even with the Reer, and fall off before the Front of your own Diviſions.

4. Fire even in the Reer, or laſt Rank, falling off to the right and left with a ſwift Motion, placing your ſelves 10 or 20 paces before the Front of Pikes ſtill facing to the Body, and making ready again whilſt the Pikes make good the Retreat, obſerving always to open to the right and left to give room for the Pikes; then ſuddenly cloſing again, you may,

5. Fire, loſing ground, falling off to the right and left about juſt before the Front of Pikes, ſtill facing to the Body as before, and making ready as before, the Pikes ſtill continuing the Charge.

6. Fire by Introduction to the Reer, until they come down even with the Reer, and ſtand, making ready again.

7. Fire, by commanding the firſt Rank to Preſent, and give Fire, both Muskettiers and Pikes turning on the ground they ſtand (by way of *Counter-march*) ſleave down the intervals, placing themſelves before the Front of their own Diviſions, the reſt keeping their own ground; and after having given Fire ſucceſſively, turn down after their Leaders on the ground they ſtand on.

Laſtly; If you are purſued eagerly, ſo that you cannot make a ſafe Retreat by marching, face all about, and Fire by way of Extraduction: If you be hard preſſed upon by the Enemies Horſe, command the Muskettiers to double their Pikes, and Fire, falling off to the right and left, placing themſelves in the Reer of their own Diviſions. And thus much for Firings in the Reer.

In the next place, it will be convenient to ſhew ſome Firings to the Flanks, whereby the ingenious Commander

mander may defend that part, if attacked by an Enemy, either upon a March, or other ways.

Firings to the Flanks upon a March.

1. Fire to the right, *File-Leaders* leading up their Files next to the Pikes.

2. Fire to the right, *Bringers up* Leading away next the Pikes, and their own Diviſion, which being twice done, reduceth them.

3. Fire to the right, leading up on the contrary Flank, either by the *File-Leaders*, or *Bringers up*.

4. Fire, by facing to the right, and doubling the Pikes to the right, and ſo fall off to the right and left by Diviſion as before, the reſt ſtill moving up, and evening the Front of Pikes.

5. Fire by Extraduction to the right, or by half Ranks drawn forth, and falling Rank after Rank in the Reer of the Pikes: After to reduce them, cauſe them to double their Front by Diviſion, ſo they will be as at firſt.

Theſe Firings may be performed as well to both Flanks as to one, the Body being faced accordingly; likewiſe to Front and Reer at the ſame time,

time, or to Front, Reer, and both Flanks, as ſhall be ſhewed in their proper places: But theſe already may be ſufficient to explain the ordinary way of Firings, which any ingenious Capacity may augment or alter according as time and place will give leave. And ſo much for plain Firings to the Front, Reer, and both Flanks, and likewiſe for the ſecond day's Exerciſe.

CHAP. XX.

The third Days Exerciſe.

HAving the third time brought your Soldiers into the Field (as formerly), it will be very neceſſary in the firſt place that they be taught the Poſtures of each Arms, either by the *File-Leaders*, or ſome other of the Officers, which muſt be careful to ſee the ſame decently and neatly performed, and in a comely manner, which is not only the Ground-work of all Exerciſe; but it is a means whereby many are brought in to be true Lovers of

of *Military Exerciſe*, as being well pleaſed with the ſight thereof; which being performed, every *File-Leader* ought to lead up his File, and to joyn into a Body, upon expectation of farther Command from his Captain, who being at the Head of the Company, commands Silence, the Officers being all at their ſeveral Poſts, he may proceed to inſtruct them in their ſeveral Diſtances and Facings; which being performed, the next thing requiſite will be to gratifie the deſerving Soldier, who earneſtly deſires to underſtand his place of Dignity and Honour: To perform which, the Captain Commands as followeth.

CHAP. XXI.

A Doubling to make every Man a File-Leader by Dignity.

C. HAlf *Files*, double your Front to the left.

Files, double to the right entire advancing, every Man placing himſelf before his Leader.

This

This *Doubling* cauſes the *Bringers up* to become the *File-Leaders*, being ſecond Man in Dignity.

C. *Front half Files*, double your Reer to the left.

Double your *Files* to the left entire advancing, every Man placing himſelf before his Leader.

This *Doubling* makes the *half File-Leaders* of the *Reer half Files* to become the *File-Leaders*, being the third Man in Dignity.

C. *Bringers up*, double your Front to the right.

Files, double your Depth to the right, every Man falling behind his *Bringer up*.

This *Doubling* cauſes the *Bringers up* of the *Front half Files* to become the *File-Leaders*, being the fourth in Dignity.

C. *Half Files*, double your Front to the right.

Files, double to the left entire advancing.

Files, to the right, double.

Files, to the right, double.

This *Doubling* cauſes the ſecond Rank to become the *File-Leaders*, being the fifth in Dignity.

C.

C. *Bringers up*, double your Front to the left.

Files, double your Depth to the left, every Man falling behind his *Bringer up*.

This *Doubling* cauſes the Rank next before the *Bringers up* to become the *File-Leaders*, and are the ſixth and laſt in Dignity.

R. *Ranks*, to the left double.

Files, to the left double: And they are reduced.

The Soldiers being ſatisfied now they know each his place of Dignity, the Captain may proceed to ſhew theſe Doublings, or ſuch other as the time will permit, and he ſhall think convenient.

CHAP.

CHAP. XXII.

Eighteen ſeveral Doublings, with their Reducements.

C. HALF *Files*, double your Front to the left.

C. Double your *Files* to the right entire, advancing.

C. *Front half Files*, double your Reer to the right entire.

C. *Left half Ranks*, double your right Flank to the left.

Direction. Face all to the right, and left *half Ranks* move forward, and double your right *Flank* to the left: To your Leader.

C. Double your *Ranks* to the left entire.

C. *Right half Ranks*, double your left Flank entire, advancing.

C. *Left half Ranks*, double your right Flank inward entire.

Direction. Half Files of the right *half Ranks*, face about; right *half Ranks*, move clear of the ſtanding part; face all to the right: Left *half Ranks*,

Ranks, move forward into the right *Flank*; to your Leader.

C. The three firſt, and the three laſt *Ranks*, double the ſix middlemoſt entire to the left Flank.

Direction. The three firſt, and the three laſt, face to the left; march clear of the ſtanding part; face inward; move, and cloſe your Diviſions; to your Leader.

C. Right half Ranks, double your left Flank to the right.

Direction. Face all to the left, and right *half Ranks* move forwards, and double your left *Flank* to the right; to your Leader.

C. Double your *Ranks* to the right entire.

C. Right half Ranks, double your left Flank inward entire.

C. The three firſt, and the three laſt *Ranks*, double the ſix middlemoſt *Ranks* entire to the right Flank.

C. Left half Ranks, double your right Flank entire, advancing.

C. Front half Files, double your Reer to the left entire.

C. Half Files, double your Front to the right.

C. Dou-

C. Double your *Files* to the left entire, advancing, every Man placing himself before his Leader.

C. *Front half Files*, double your Reer to the right; following your Leaders.

Direction. Half Files, face about; *File-Leaders*, turn off to the left, and move down upon the right of the Reer, the rest following successively; to your Leader.

C. *Files*, double your Depth to the left entire; and they are reduced, being faced to their Leader.

CHAP. XXIII.

Twelve several Countermarches, with their Reducements.

C. *Files* to the right hand Countermarch, losing ground.

C. *Ranks* to the right hand Countermarch, losing ground.

Direction. Face all to the right.

C. *Front* and *Reer half Files*, interchange ground.

Dire-

Direction. *Front half Files*, face about to the left.

C. *Right* and *Left half Ranks*, interchange ground.

Direction. Face inward.

C. *File-Leaders*, face about; the reſt paſs through to the right, and place your ſelves behind your Leaders; face to the Front.

C. Countermarch your *Front* and *Reer* into the midſt.

C. Countermarch your *Flanks* into the midſt; face outward.

C. *File-Leaders*, and *Half File-Leaders*, ſtand; the reſt paſs through to the right, and place your ſelves before your *Leaders*, and *Half File-Leaders*.

Direction. The ſecond *Rank* from the *Front*, and from the *Half File-Leaders*, are to begin the Motion.

C. The outmoſt *File* upon the right, and the ſecond *File* from the left, ſtand; the reſt paſs through to the right, and place your ſelves on the outſide of your right hand Men.

C. *Files* to the left hand Countermarch, loſing ground.

C. *Front* and *Reer half Files*, Countermarch to the right.

Direction. Front and *Reer half Files*, turn off distinctly by your selves on the ground you stand; face to your Leader.

C. *Right* and *Left half Ranks*, Countermarch to the right.

Direction. Face to the right; and right and left *half Ranks* turn off distinctly to the right; face to your *Leader*, and they are reduced.

CHAP. XXIV.

Twelve several Wheelings, with their Reducements.

C. WHeel your *Reer half Files* inward into the midst, and double the Front inward entire.

Direction. Right and *Left half Ranks*, open from the midst to double Distance; *Reer half Files*, face about, and wheel your Reer inward into the midst, moving forward, doubling the Front inward entire.

C. Wheel

C. Wheel off your *Right half Ranks*, and double your left Flank to the left entire.

Direction. Face outward; *Right half Ranks*, wheel about to the right, and double your left Flank to the left; to your Leader.

C. Right and *Left half Ranks*, double the length of your Battel by wheeling outward into the Front.

Direction. Face outward, and *Right half Ranks* wheel to the left, and *Left half Ranks* wheel to the right, and after, close Files into the midst to order.

C. Wheel off your *Right half Ranks*, and double your left Flank by Division.

Direction. Face outward; *Right half Ranks*, wheel about to the right and left outward, moving forward, and doubling the left Flank to the right and left outward.

C. Wheel your *Left half Ranks* inward into the right Flank.

Direction. Face outward, and open from the midst to double Distance; the *Front* and *Reer half Files*, and after, the *Left half Ranks* may wheel

inward, and double the right Flank inward entire.

C. Wheel off your *Reer half Files*, and double your Front to the left entire; *half Files*, face about.

C. Wheel your *Right half Ranks* into the midſt, and double your left Flank inward entire.

Direction. Face outward; and *Front* and *Reer half Files* that were, are to open from the midſt to double Diſtance; and *Right half Files* wheel inward, and move forward into the left Flank.

C. Wheel off your *Reer half Files*, and double your Front to the right entire; *half Files*, face about.

C. Wheel off your *Left half Ranks*, and double your right Flank by Diviſion.

C. Wheel off your *Front half Files*, and double the Reer to the right entire; *half Files*, face about.

C. Double the depth of the Battel, by wheeling *Front* and *Reer* into the midſt of each Diviſion.

Direction. Front half Files, move forward four paces; then the laſt Rank of each Diviſion face about, and wheel

wheel into the midſt of *Front* and *Reer* of each Diviſion; face to your Leader.

C. Wheel off your *Front half Files*, and double your Reer to the left entire; *half Files*, face about.

C. Wheel your Battel off by Diviſion from the *Reer*.

Direction. Face all about; and *Right half Ranks* wheel about to the right and left outward to the Front, and cloſing Files into the midſt to order, they will be reduced as at firſt.

CHAP. XXV.

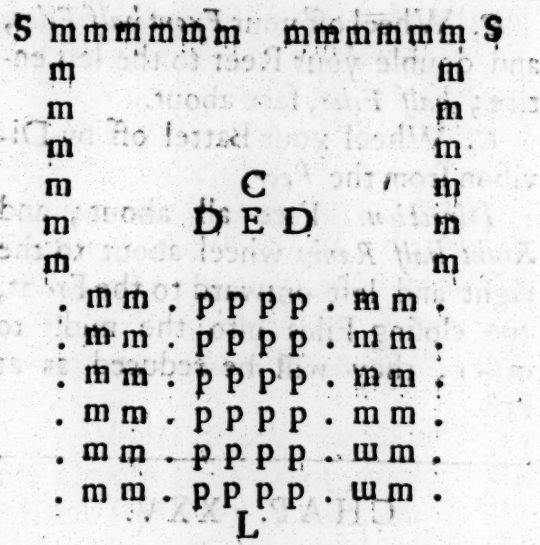
Several Firings, with Figures of Battel for this days Exerciſe of 72 Men.

THE two outmoſt Files of *Muſkettiers* advance forward 'till clear of the ſtanding part; then rank inward to order, Preſent, and give Fire all together; the next File marching up in the Reer of the firſt, and ſo ranking inward as before, the reſt ſucceſſively

This Firing is a Firing by Files.

ceſſively doing the ſame. Obſerve the Figure.

Fig. 1.



Having fired, they are to wheel off to the right and left, being led off by their reſpective *File-Leaders*, placing themſelves next the *Pikes*, the reſt of the Body moving to the right and left outward, to give room for them that have fired to place themſelves.

Command.

Muſketiers, advance forward 'till you are ſix Foot clear of your ſtand of *Pikes*;

Pikes; then face inward, and close your Divisions; to your Leader.

Half Files of *Pikes*, double your Front by Division.

The first Rank make ready, Present, and give Fire, wheeling off to the right and left, placing your selves in the Reer of your own Divisions. Observe the Figure.

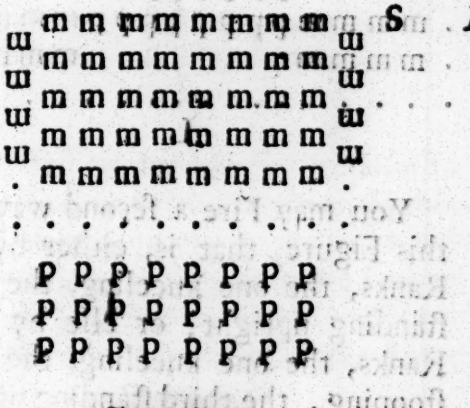


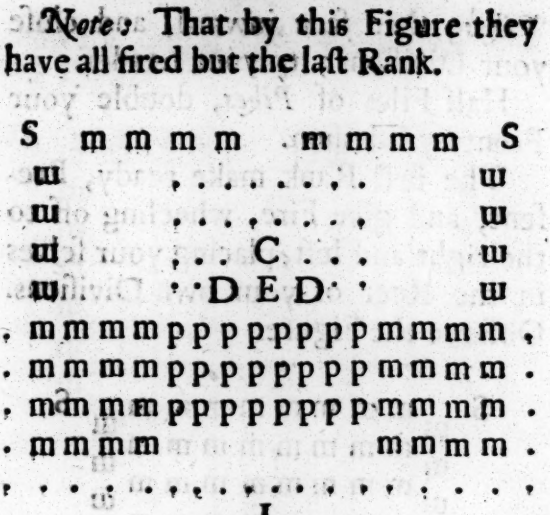
Fig. 2.

Command.

Reducement of the last Figure by way of firing, which is this: The first Rank is to fire, and wheel off by Division, placing themselves even with the first Rank of *Pikes*, the rest successively doing the like 'till they have all fired over.

Note: That by this Figure they have all fired but the last Rank.

Fig. 3.



You may Fire a second way upon this Figure, that is, either by two Ranks, the one kneeling, the other ſtanding upright; or elſe by three Ranks, the one kneeling, the other ſtooping, the third ſtanding upright. After they have all fired over, the *Pikes* may Charge, and then advancing their *Pikes*, Command the *Reer half Files* of *Pikes* that doubled, to face to the right about; march, and take your places; to your Leader; which brings me to the next Firing, which is, *Ranks* advancing from the

Front,

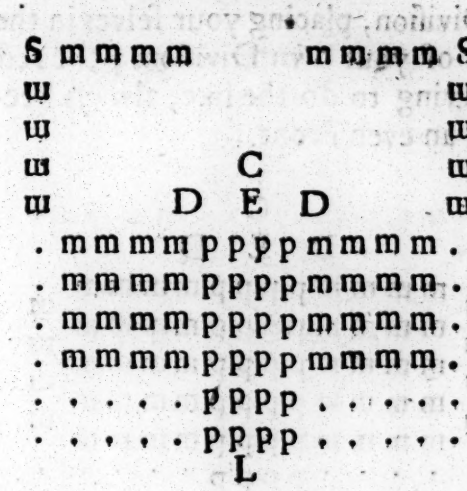


Fig. 4. *Ranks advancing from the Front of a standing Battalia.*

Front, led up by two Serjeants, who are to fire either by ſingle or double *Ranks*, wheeling off to the right and left, placing themſelves in the *Reer* of their own Diviſions, which will produce the next Figure of *Ranks* firing even with the Front.

Command.

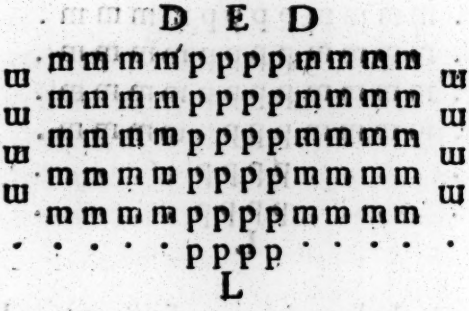
The firſt Rank of *Muſkettiers* advance with your right Feet, blow and open; advance with your left Feet, and to the Front Preſent, give Fire, wheeling all off to the right and left

by

by Diviſion, placing your ſelves in the Reer of your own Diviſions; the reſt obſerving to do the like, always keeping an even Front.

Fig. 5.

Ranks firing even with the Front.



You may if you pleaſe fire two or three Ranks together, and if preſs'd upon, the *Pikes* may Charge home, and *Muſkettiers* may give Fire even with the *half Files*; if the Enemy give on ſo faſt that they force a Retreat, then they are to Fire upon the ground they ſtand, wheeling off as before; but if the Enemy give ground, then you may proceed to give Fire upon the *Horn Battel.*

The

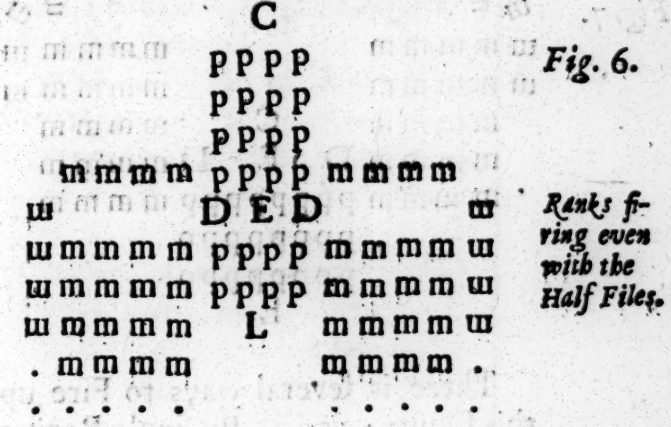


Fig. 6.

Ranks firing even with the Half Files.

The way to perform the *Horn Battel* is as followeth.

Command.

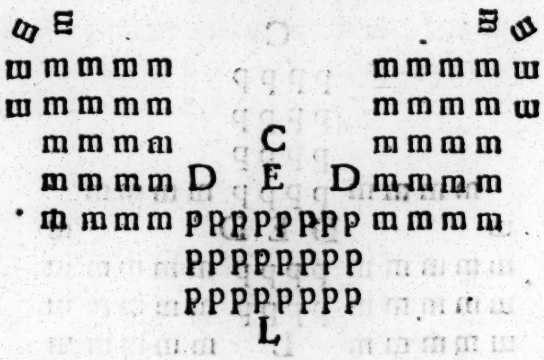
Pikes, double your Ranks forward to the right, and open outward to Order; ſtand.

The Horn Battel.

Muskettiers, March, until the *Bringers up* rank even with the Front.

There

Fig. 7.


m m m

Pikes, advance forward, and range even a Breaſt with the *Reer half Files* of *Muskettiers*.

Reer half Files of *Muskettiers*, to the right and left outward; march ſix paces; face all to your Leader.

Fig. 8.

S

. mmmm mmmm .
. mmmm mmmm .
. mmmm mmmm .
. .
. C .
D E D
. mmmm . pppp pppp . mmmm .
. mmmm . pppp pppp . mmmm .
. mmmm . pppp pppp . mmmm .
. . . . . L . . . . .
. . . . . .
. . . . . .

To fire upon this Figure, cauſe both the *Muskettiers* of the Front, and both Flanks, to Preſent and give Fire together; the *Muskettiers* of the Front Diviſion are to wheel off to the right and left between their intervals, and place themſelves even in Rank in

in the Reer of the Reer Diviſions of *Muſkettiers:* Then the *Muſkettiers* that fired in the Flank march directly down to the right and left, and place themſelves ſix foot below the laſt Rank of *Pikes*, always obſerving to leave a ſufficient place for the Front Diviſion to place themſelves.

A ſecond way of Firing will be to fire all three Ranks together, the firſt kneeling, the ſecond ſtooping, the third ſtanding upright; then cauſe the Front Diviſion of *Muſkettiers* to face to the right and left outward, and march 'till they have given the *Pikes* ſufficient room to march; then cauſe the Ranks of *Pikes* that doubled, to face to the left, and take their places; after, face to their Leader, march up, and even their Front; *Reer Diviſions* of *Muſkettiers* face to the right and left inward, and cloſe your Diviſions, ſo they are reduced as at firſt.

Wheel your *Flanks* by Diviſion into the Front.

As

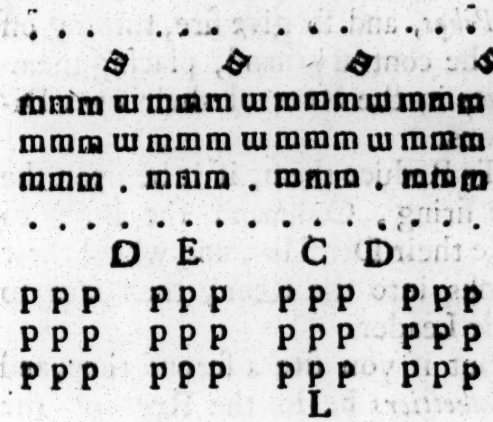


Fig. 9. *The broad fronted Battel.*

As for firing upon this Figure, cauſe the firſt Rank to fire, then to march down through the intervals to the right, and place themſelves in the Reer of their own Diviſions, the reſt ſucceſſively performing the ſame.

For a ſecond firing, they may fire, and fall off to the right or to the left (as before), and place themſelves in the Reer of the *Pikes*. The *Pikes* here may Charge either at hand or foot, and the *Muſketiers* may alſo fire over their heads, if they Charge at foot; if at hand, the *Muſketiers* may face either to the right or left, and march up through the intervals, and place

place themſelves before each Diviſion of *Pikes*, and ſo give fire, turning off to the contrary hand, placing themſelves in the Reer of their own Diviſions.

To Reduce them, if it be upon the firſt firing, Command the Body to cloſe their Diviſions, and wheel their Flanks into the Reer; then face to their Leader.

But if you fire a ſecond time, and *Muskettiers* be in the Reer of the *Pikes*, Command them by Diviſion to double their Front entire, and then wheel both Flanks into the Reer, as before.

Command.

Muskettiers, march, 'till clear of the Body of *Pikes*.

Front half Files, face to the right and left inward, and cloſe your Diviſions; to your Leader.

Reer half Files, open to the right and left.

Front half Files of *Pikes*, face to the right and left outward; march, and flank your Wings of Shot; to your Leader.

For

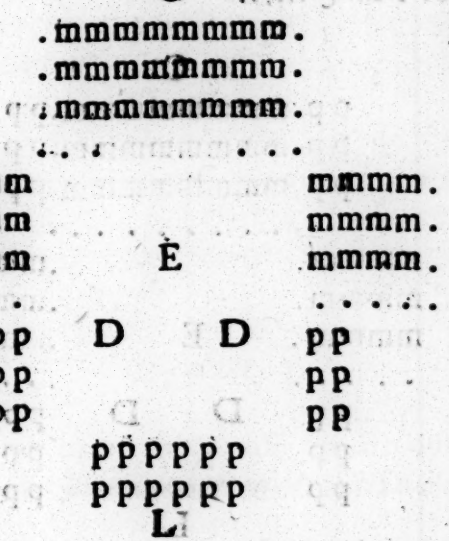


Fig. 10.

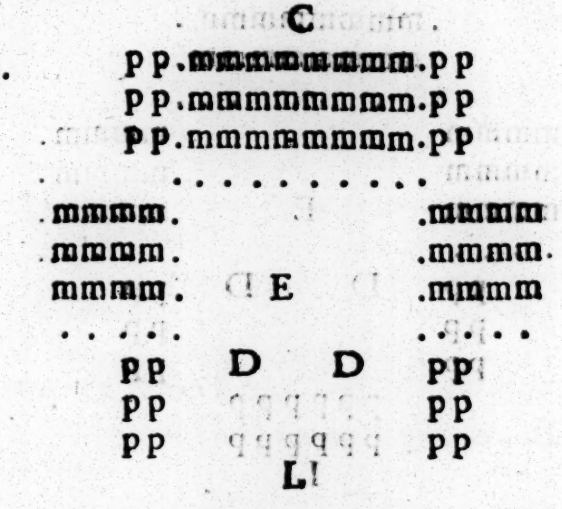
For to Fire upon this Figure, Command the first Rank of *Musketiers*, both in Front and Flanks, to Present altogether, and give Fire, falling off to the right and left, placing themselves in the Reer of their own Divisions.

Command.

Half Ranks of the Reer Division of *Pikes*, wheel to the right and left outward;

ward; march up, and flank your Front of *Muskettiers.*

Fig. 11.



You may Fire upon this Figure to Front and both Flanks, or to Reer and both Flanks, by commanding the Front Divifion, both of *Muskettiers* and *Pikes*, to face to the right about; march down, and even the Reer.

But to reduce this Figure as now it ſtands, Command the two Diviſions of *Pikes* in the Front to face to the right about; then wheel your Front into the midſt, and march down and take your places; to your Leader.

Front

Front half Files of *Muskettiers*, face to the right and left outwards, and march 'till you file even with your *Reer half Files* of *Muskettiers*, then ſtand; to your Leader.

Front half Files of *Pikes*, face to the right and left inward, and cloſe your Diviſions; then move all up, and even the Front of *Muskettiers*: So they are reduced as at firſt.

Command.

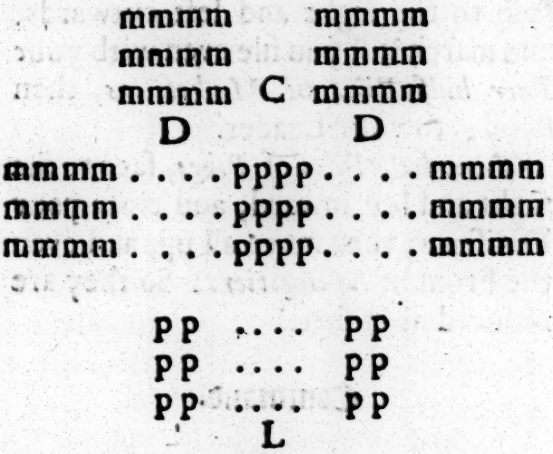
Muskettiers, march all, until your *half Files* range even with the Front of *Pikes*.

Front half Files, march forward three paces, then ſtand.

Reer half Files of *Muskettiers*, face to the right and left outward, and march clear of the *Front half Files*.

Reer half Files of *Pikes*, open to the right and left outward, and march clear of the Front Diviſion of *Pikes*; to your Leader.

Fig. 12.



For the first Firing, let all the Divisions of *Musketiers* fire by Ranks as they stand, falling to the right and left outward into the Reer of their own Divisions.

And for the second Firing, cause the four Divisions of *Musketiers* in the Front and Flanks to make ready; then let the first Rank of each Division Present, and give Fire, wheeling off to the right and left as you were, each Division flanking their own *half Files* of *Pikes*; then *Reer half Files* of *Pikes* face to the right and left inward, and march into your places; after, close

close Files inward to order, and Ranks close forward to order, and they will be reduced as at first.

So much shall suffice for the third days Exercise, and now we'll lodge our Colours, until the bellowing Drum give a forth Summons into the Field.

CHAP. XXVI.

The fourth Days Exercise.

HAving the fourth time brought your Soldiers into the Field compleatly Armed, according to *Bellona*'s Summons, and every Man in his place of Dignity, the Captain may proceed in commanding the *File Leaders* (which is the first place of worth) to Exercise every one their File, which being performed, and every *File-Leader* having brought up his File into its proper place, the Officers being all there present, the Captain considers (after he hath shewed them their Distances and Facings) which way farther to delight them, being the last Exercise he shewed them was a

Doubling, which produced every Man a *File-Leader* by Dignity; ſo in this he may go farther, in ſhewing how by a Doubling every Man becomes a *File-Leader* by ſucceſſion. The words of Command are as followeth.

C. *Ranks*, to the left double.

C. *Files*, to the left double.

C. *Half Files*, double your Front to the left.

C. *Files*, double your Depth to the left.

C. *Bringers up*, double your Front to the right.

C. Double your Files to the left entire, advancing.

C. *Bringers up*, double your Front to the left.

C. Double your Files to the right entire, advancing.

C. *Ranks*, to the right double.

C. *Files*, to the right double.

For Reducement.

C. *Files*, rank to the left into the Front.

C. *Ranks*, File ſix to the left; and they are reduced.

The

The *Commander*, if he pleaſe, (and have time) may proceed farther in variety of Doublings, either entire or diviſional; but for this days Exerciſe, it will be convenient that the Soldiers be ſhewed ſome variety of Doublings by *Countermarches*, which altho' they are ſomething difficult, yet they will afford much delight unto the Soldiers.

CHAP. XXVII.

Several Doublings by Countermarches, with their Reducement.

C. *Ringers up*, double your Front to the left.

C. Double your Files to the left entire, advancing, every Man placing himſelf before his Leader.

C. *Front half Files*, double your Reer to the right and left outward, following your Leaders.

C. Double your Files outward entire, advancing, every Man placing himſelf before his Leader.

C. *Bringers up*, double your Front to the right and left inward.

C. Double your Files inward entire, advancing, every Man placing himself before his Leader.

C. *Front half Files*, double your Reer to the right and left inwards, following your Leaders.

C. *Files*, double your Depth to the right and left outward, following your *Bringers up*.

C. Double your Files to the right by Division, every Man placing himself before his *Leader*, and his *Bringer up*.

Direction. *Half Files* of the even Files from the right, face about; even *Files* advance forward, and double the odd; to your Leader.

C. The three first, and the three last, double the six middlemost Ranks to the right and left inward, following your *Leaders*, and your *Bringers up*.

Direction. The three first, and the three last Ranks, are they that double, and the *File-Leaders*, and *Bringers up*, begin the Motion; the rest following according to Command, always conforming to the same Posture of those they

they are to double, and then face to their Leader.

C. Double your Files to the left by Diviſion, every Man placing himſelf before his *Leader*, and his *Bringer up.*

Direction. The ſix middle Ranks double your Front and Reer to the right and left outward, following the *half File-Leaders*, and the *Bringers up* of the *Front half Files*: The three laſt Ranks of the *Front* and *Reer half Files* face about; the middle Ranks are to begin this Motion, turning off to the right and left, every Rank following them until they have doubled the Front and Reer; then face all to the Front, and cloſe their Diviſions forward to open Order.

C. Double your Files inward by Diviſion, every Man placing himſelf before his *Leader*, and his *Bringer up.*

Direction. *Half Files* of the outmoſt Files face about, and move forward, placing your ſelves before your *Leaders*, and your *Bringers up*; face to your Leader.

C. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks

Ranks to the right and left outward, following your *Leaders*, and your *Bringers up.*

Direction. The three first, and the three last Ranks, march away to the right and left, and double the six middlemost Ranks; to your Leader.

C. *Front half Files,* double your Rear to the right, following your Leaders.

C. Double your Files to the left entire, advancing, every Man placing himself before his Leader.

C. Double your Ranks to the right entire, every Man placing himself on the outside of his right hand Man.

C. *Right half Ranks,* double your left Flank, every Man placing himself on the inside of his left hand Man.

C. Double your Ranks to the left entire, every Man placing himself on the outside of his left hand Man.

C. *Left half Ranks,* double your right Flank, every Man placing himself on the inside of his right hand Man.

C. Double your Ranks to the right and left by Division, every Man placing

cing himſelf on the outſide of his right and left hand Man.

Direction. Every even Rank from the Front move forth to the right and left outward, and double the odd, placing your ſelves on the outſide of your right and left hand Man.

C. The outmoſt Files upon each Flank that moved, double the inmoſt Files to the right and left inward, every Man placing himſelf on the inſide of his right and left hand Man.

C. *Right half Ranks*, double your left Flank to the right, following your right hand Men.

Direction. *Right half Ranks* face outward, and turn off to the left, and double the left Flank to the right; to your Leader.

C. Double your Ranks to the right entire, every Man placing himſelf on the outſide of his right hand Man.

C. *Left half Ranks*, double your right Flank to the left, following your left hand Men.

C. Double your Ranks to the left entire, every Man placing himſelf on the outſide of his left hand Man.

Theſe

These or the like Doublings may be very proper to be used in Exercise sometimes to the younger Soldier, which will not only delight him, but cause him to understand the use of them, though perhaps many old Experienced Officers will condemn these sort of Doublings, and say, that they are needless as to our present Mode of Discipline: But because that Knowledge is no burden, and that at some time or other they may be not only useful, but serviceable, I have here inserted them to delight the young Soldier in his private Exercises.

Having reduced your Men as at first upon these Doublings by Countermarches, in the next place it will be requisite to proceed to Firings, wherein shall be shewed several Figures of Battel, and the several ways of Firing upon each.

CHAP.

CHAP. XXVIII.

Several Figures of Battel, with Firings upon the ſame, for this days Exerciſe of 72 Men.

Command.

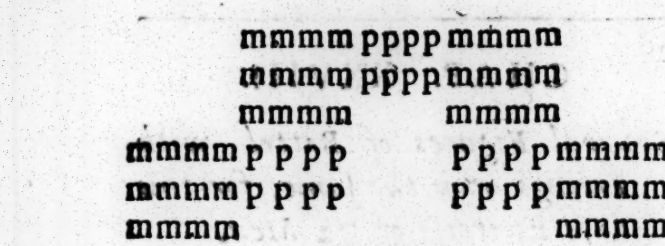
FRont *half Files* of *Muſkettiers*, and the two firſt Ranks of *Pikes*, march three Foot.

The four laſt Ranks of *Pikes* wheel your Flanks into the Front by Diviſion.

Face to the right and left, and march even in the Reer of the Front Diviſion of *Muſkettiers.*

Reer half Files of *Muſkettiers*, face to the right and left, and march clear of the Diviſion of *Pikes*; face to your Leader, and march up, and even the Flanks of *Pikes.*

For



1. For the first Firing, let the Front Division fire, and fall off to the Reer of themselves.

2. Command the Reer Divisions, both of *Muskets* and *Pikes*, to face to the right and left, and march 'till clear of their Front Divisions; then face to their Leader, and march up, and even the Front; and so Fire all four Divisions, falling off to the right and left in the Reer of their own Divisions.

3. Command the three middle Divisions, both of *Muskets* and *Pikes*, to advance forward six paces; then fire, and wheel into the Reer of *Pikes*, the *Pikes* maintaining the Retreat 'till they fall even a Breast with the Reer Divisions of *Pikes*; which so soon as they are fallen into the Body, the Reer Divisions of *Muskettiers* are to fire,

fire, and fall off as before, placing themſelves in the Reer of their own Diviſions, which will produce this following form.

Note: That upon this Firing, the Front Diviſions of *Muſkettiers* are to place themſelves in the Reer of the Reer Diviſion of *Pikes.*

P P P P	P P P P	P P P P
P P P P	P P P P	P P P P
m m m m		m m m m
m m m m		m m m m
m m m m		m m m m
m m m m		m m m m
m m m m		m m m m
m m m m		m m m m

Reducement.

The middle Diviſion of *Pikes* advance ſix Foot.

The two Diviſions of *Pikes* that are upon the Flanks, face in oppoſition, and cloſe your Diviſions; then wheel your Flanks inward into the Reer, and face to your Leader.

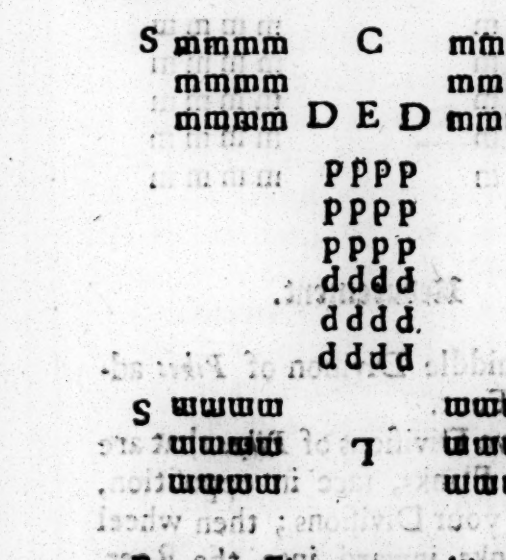
Mus-

Muskettiers, march up, and Flank your *Pikes*; and they are reduced as at first.

Command.

Reer half Files of *Pikes* and *Muskettiers*, to the right about.

Muskettiers, march all, until your *Bringers up* be even in Breast with the Front and Reer of *Pikes*, to your Leader.



For to Fire upon this Figure,

1. Cause the two Divisions, both in

Front

Front and Reer, to make ready, and fire, falling off to the right and left in the Reer of their own Diviſions.

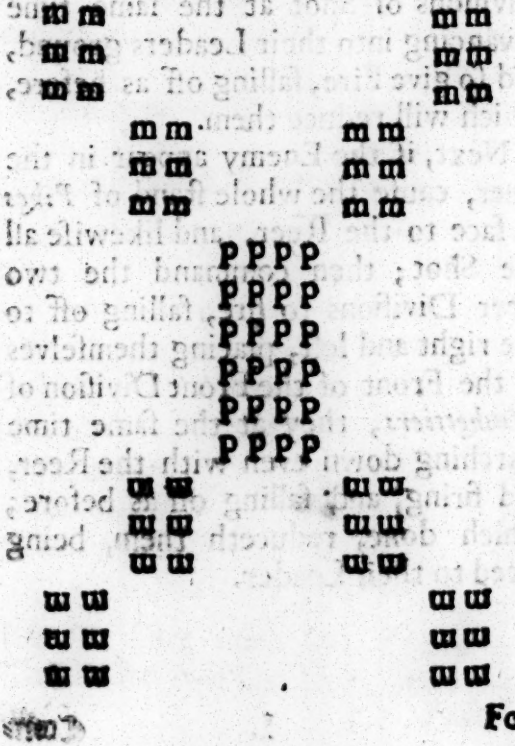
2. Command the Reer Diviſions to face to the Front, and march up even a Breaſt with the Reer of *Pikes*; then let the Front Diviſions Fire, and wheel off to the right and left, and place themſelves in the Reer of the Reer Diviſions of Shot; the Reer Diviſions of Shot at the ſame time advancing into their Leaders ground, and ſo give Fire, falling off as before, which will reduce them.

Next, if the Enemy appear in the Reer, cauſe the whole ſtand of *Pikes* to face to the Reer, and likewiſe all the Shot; then command the two Reer Diviſions to fire, falling off to the right and left, placing themſelves in the Front of the Front Diviſion of *Muſkettiers*, they at the ſame time marching down even with the Reer, and firing, and falling off as before; which done, reduceth them, being faced to their Leader.

Command.

Reer half Files of *Musketiers*, to the right about.

The two outmost Files of both *Front* and *Reer half Files*, march, 'till clear of your own half Files; then ſtand; which produceth this following Figure.



For

For the first Firing, let them Fire to Front and Reer, every Division falling off to the right and left, placing themselves in the Reer of their own Divisions.

For the second Firing, command the two outmost Files of *Pikes* to face to the right and left, and march 'till they stand even a Breast with the inmost Divisions of *Musketiers*.

Reer half Files of the two inmost Files of *Pikes*, face about; inmost Files of *Pikes*, wheel your Flanks into the Front and Reer, and march up, and even the four inmost Divisions of *Musketiers*; face all to the right about, and they will stand as in the Figure following.

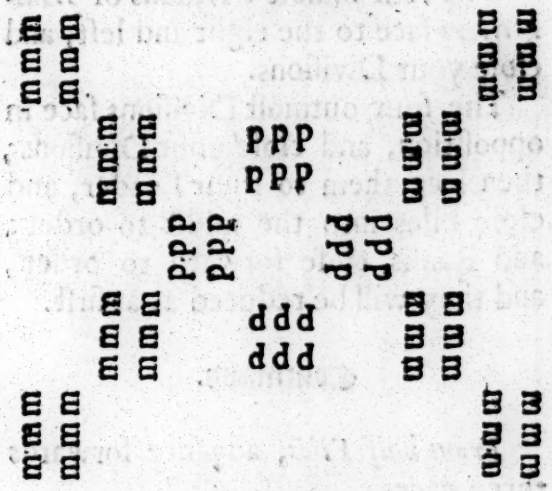
Upon this Figure you may Fire to the Front or Reer alone, or to both, as in the other, or to the right or left Flank, or to both Flanks, or to all four at once, as occasion offers, every Division falling off to the right and left, placing themselves in the Reer of their own Divisions.

But if the Enemy give on upon the right Flank, you may face the whole Body to the right, and cause the Divi-

ſions upon the right to Fire, falling off to the right and left, falling in the Reer of the left Diviſion, they at the ſame time advancing into the right Flank, who are to fire, and ſo to return into their places; you may do the ſame to the left Flank, or to Front and Reer, as occaſion ſhall be given. Obſerve the Figure, which is to both Flanks at once.

Note: The two outmoſt Diviſions are to fire firſt, and to be relieved by the two outmoſt of the left; then the two inmoſt Diviſions are to fire, and to be relieved by the two inmoſt Diviſions of the left, who are to do the like, and ſo to return into their places.

Note alſo, That in this Figure the *half Files* of the two outmoſt Files were doubled to the right and left inward, before they faced, and begun their Motion.



Reducement.

Pikes, face to the right about; inmoſt Files of *Pikes*, wheel your Flanks into the midſt, and cloſe forward to order.

The two outmoſt Files of *Pikes* face to your Leader.

Half Files of the two outmoſt Files of *Pikes* that doubled face to the Reer, and march forth, and take your places; the two outmoſt Files advance, and even the two inmoſt Files, and cloſe Files into the midſt to order.

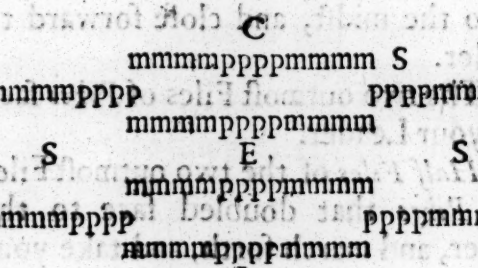
The four inmoſt Diviſions of *Muſkettiers* face to the right and left, and cloſe your Diviſions.

The four outmoſt Diviſions face in oppoſition, and cloſe your Diviſions; then face them to their Leader, and cloſe Files into the midſt to order; and Ranks cloſe forward to order, and they will be reduced as at firſt.

Command.

Front half Files, advance forwards three paces.

The middle Rank of each Diviſion face outward, and move clear of the ſtanding part; face to your Leader.



The

The first Firing.

Let the four first Divisions in the Front fire, and fall off to the right and left into the Reer; the rest at the same time moving up, firing, and interchanging Ground with them in the Reer, till they have all fired over, and are in their places.

The second Firing.

Let them face to both the Flanks.

Divisions of *Pikes* in the midst open outward, until you be clear of the standing part; then Port.

Muskettiers, give fire on the same ground you stand on; then let the *Pikes* Charge on until the *Muskettiers* have made ready again, and then retreat into their places: The *Muskettiers* may give fire as before is mentioned, the *Pikes* still in like manner Charging on; then retreating into their places, face all to their Leader.

Command.

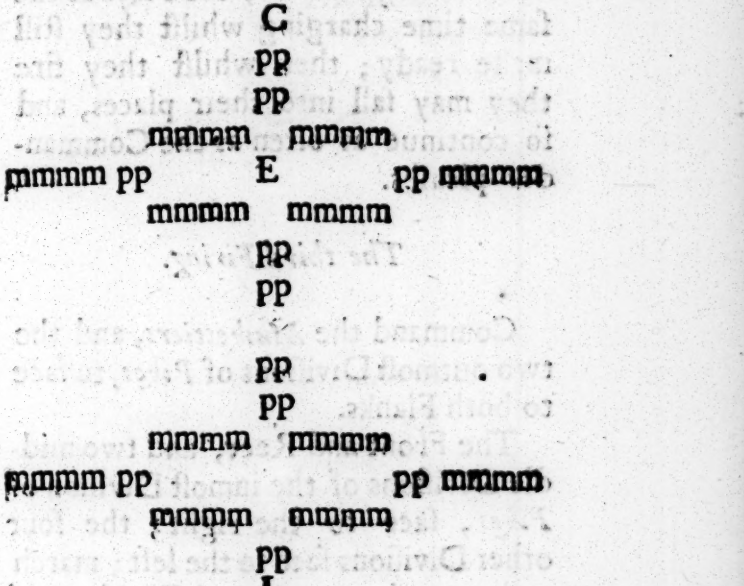
Reer Diviſions of *Pikes*, both in Front and Reer Diviſions, face to the right about, and double your Depth to the right and left inward, advancing three paces; to your Leader.

Diviſions of *Pikes*, both in Front and Reer Diviſions, double your Front to the right and left inward, advancing three paces.

Or thus, as in the third Figure.

Command the inmoſt Diviſions of *Pikes* to move to the left one pace, and double to the right Fileways, and face to the Front and Reer, and march three paces; middle Files of Front and Reer Diviſions, open from the midſt to double Diſtance; face to your Leader.

The



The firſt Firing.

Face to the Front and Reer, and then give fire, and fall in the Reer of themſelves.

The ſecond Firing.

Inmoſt Diviſion move forwards, and rank outwards into Front and Reer, and then give fire all together,

and

and file as you were, the *Pikes* at the ſame time charging whilſt they ſtill make ready; then whilſt they fire they may fall into their places, and ſo continue as often as the Commander pleaſes.

The third Firing.

Command the *Muſkettiers*, and the two outmoſt Diviſions of *Pikes*, to face to both Flanks.

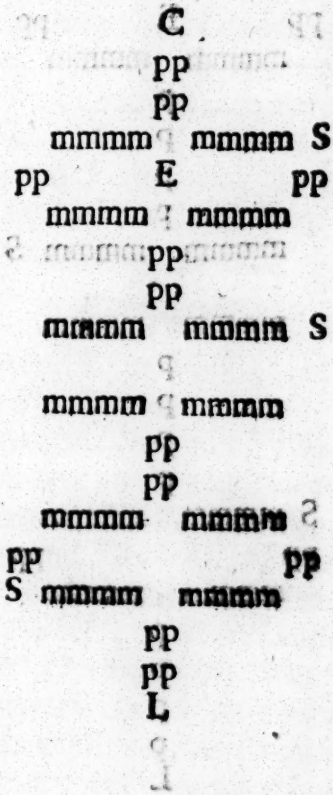
The Front and Reer, and two middle Diviſions of the inmoſt Diviſion of *Pikes*, face to the right; the four other Diviſions face to the left; march and even the two inmoſt Diviſions of Shot to both Flanks; then give fire, falling off in the Reer of their own Diviſions; then let the *Pikes* face inward, and take their places as they were, and face to their Leader. This is ſo plain it needs no Figure.

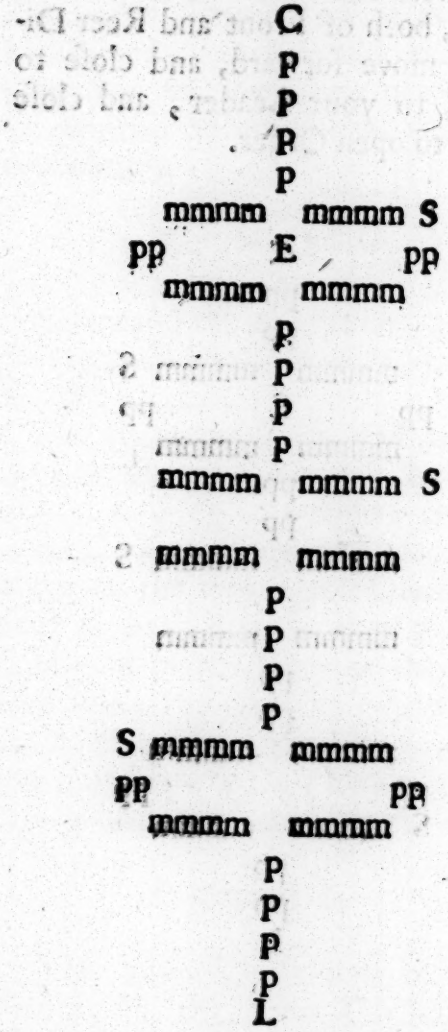
Command.

The outmoſt Diviſions of *Muſkettiers* in the Front Diviſion face about.

The

The two outmoſt Diviſions of *Muſkettiers*, both of Front and Reer Diviſions, move forward, and cloſe to Order; to your Leader, and cloſe inward to open Order.

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L

For the first Firing upon the two foregoing Figures, let the Front Division of *Musketteers* advance, and even the Front of *Pikes*; then give fire, and fall off to the right and left, placing themselves in the Reer of the Reer Division of *Musketteers*; the rest of the Divisions at the same time moving up into their Leaders ground, and firing, falling off as before, 'till they are all reduced into their places as at first.

A second Firing may be to both Flanks, or to Front and Reer at the same time.

Command.

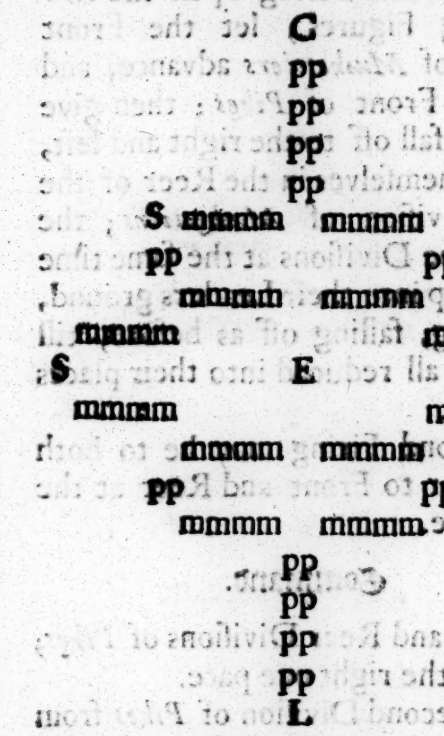
Front and Reer Divisions of *Pikes*, move to the right one pace.

The second Division of *Pikes* from the Reer, face to the right about.

The second Divisions of *Pikes*, both in Front and Reer Divisions, move forward, and double both Front and Reer to the left; to your Leader.

Middle Divisions of *Musketteers*, open outward to twice double Distance; face all to the Center, and march three paces; to your Leader.

For



For the first Firing, the four last Divisions face to the Rear.

The two outmost Divisions, both of *Muskets* and *Pikes*, face to both Flanks; likewise the four Divisions in the Front face to both Flanks; then give Fire, falling off to the right and left in the Rear of their own Divisions.

For

For the ſecond Firing, command the Front and Reer Diviſions of *Pikes* to wheel their Flanks into the Front and Reer.

The Reer Diviſions, both of *Muſkettiers* and *Pikes*, face to the right about; then give fire to both Front and Reer, the Front Diviſion falling off in the Reer of the ſecond Diviſion, the ſecond at the ſame time moving up into their Leaders ground, and ſo firing, falling off as before, the Reer at the ſame time doing the like; after, command the *Pikes* to wheel their Front and Reer into both Flanks, and face all to their Leader.

For the third Firing, let them give fire by Extraduction, and fall in the Reer of the *Pikes*.

For the fourth Firing, let the *Pikes* charge to the Horſe, and the *Muſkettiers* give fire all together over their heads; then move forth into their firſt places, and face to their Leader.

Command.

Front and Reer Diviſions of *Muſkettiers*, open outward to double Diſtance.

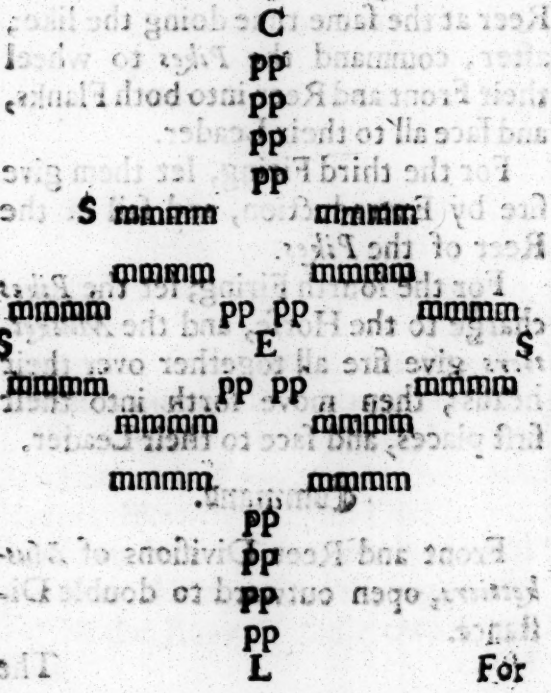
The

The outmoſt Diviſions of *Pikes* cloſe inward to open Order.

The ſecond Diviſion of *Pikes* from the Front face about.

The third Diviſion of *Pikes* from the Front, and the ſecond Diviſion of *Pikes* from the Reer, move forwards to order; face to your Leader.

Front and Reer Diviſions ſtand, the reſt face outward, and move two paces; to your Leader.



For

For the Firings, let the first be to the Front, by commanding the two first Divisions in the Front to fire, falling off to the right and left into the Reer of the Reer Divisions, they at the same time moving up into their *File-Leaders* ground; after the second Divisions have fired, the two outmost are to fire, and are to be relieved by the two outmost in the Reer: This firing is to be continued 'till they have all fired over, and are returned into their places.

For the second Firing, let them fire on the ground they stand, both to Front and Reer, every Division falling off in the Reer of themselves.

For the third Firing, face the *Musketiers* and *Pikes* to both Flanks; then cause them to give fire unto both Flanks as they stand, falling in the Reer of their own Divisions, the *Pikes* at the same time charging; which being ended, face them to their Leader, and proceed.

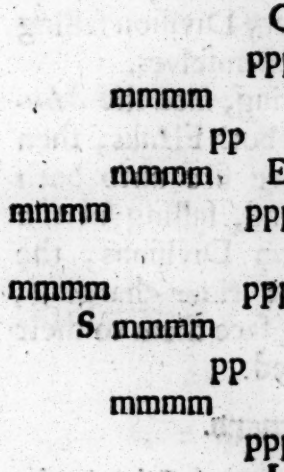
Command.

The two Divisions of *Pikes* in the Front, wheel your left Flanks into

the midst of the Battel; face to your Leader.

The two Divisions of *Pikes* in the Reer wheel your right Flanks into the midst, and face to your Reer; then let the Front and Reer Division of *Pikes* move three paces, then face to their Leader.

Middle Divisions of *Pikes* face outward, and move three paces; then face to Front and Reer; then move forward, until you range even a Breast with the midst of the Front and Reer Divisions of *Pikes*; to your Leader.



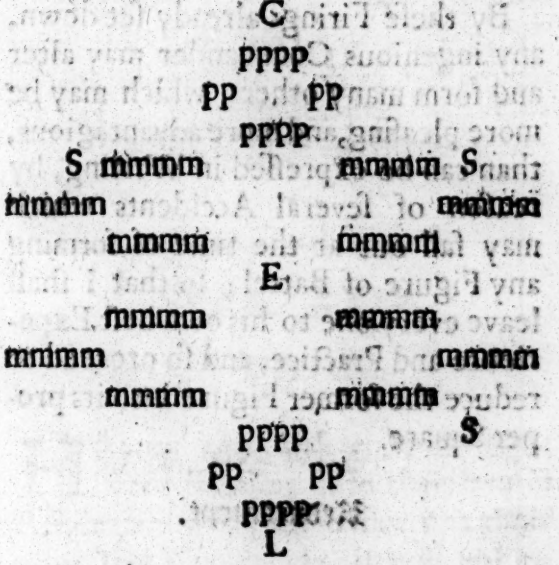
Com-

Command.

Middle Division of *Pikes* next the Reer, face to the right about.

Middle Divisions of *Pikes* move forward six paces; to your Leader.

Divisions of *Musketiers* face to the right and left, and move three paces; to your Leader.



For the first Firing, command the *Musketiers* to face to Front and Reer;

and ſo give fire and fall in between the *Pikes*, the *Pikes* at the ſame time making room for the *Muſkettiers* to fall in betwixt them, the *Pikes* all the while charging, 'till the *Muſkettiers* have made ready again.

For the ſecond Firing, let them face to both the Flanks, and give fire, falling into their places in the Reer of their own Diviſions; after, face to their Leader.

By theſe Firings already ſet down, any ingenious Commander may alter and form many others, which may be more pleaſing, and more advantagious, than can be expreſſed in Writing, by reaſon of ſeveral Accidents which may fall out at the time of forming any Figure of Battel; ſo that I ſhall leave every one to his own beſt Experience and Practice, and ſo proceed to reduce the former Figure into its proper Square.

Reducement.

Command the outmoſt Diviſions of *Muſkettiers* upon the Flanks to face to Front and Reer, and move forward,

and

and place your ſelves in the midſt of your own Diviſions.

The outmoſt Diviſions of *Pikes* face to the right and left inward, and cloſe your Diviſions.

Muſkettiers and *Pikes* advance forwards, and even your Front of *Pikes*, and cloſe Ranks forward to order; and Files into the midſt to order, and they will be reduced as at firſt.

And now it will be high time to lodge our Colours, and repoſe our ſelves, until by the Beat of the Drum we ſhall be commanded into the Field. And ſo much for the fourth days Exerciſe.

CHAP. XXIX.

The fifth Days Exerciſe.

HAving the fifth time brought your Soldiers unto the place of Rendezvouz, and all Officers at their reſpective Commands, it will not be amiſs to cauſe the Soldiers to be inſtructed (in the firſt place) in the Poſtures of the *Pike* and *Muket*, which will

cauſe the Soldiers, by often practice of their Poſtures, to grow ſo perfect, that they will not only manage their Arms with eaſe and ſafety, but with a great deal of celerity; when on the contrary, the unpractiſed Soldier will not only be a trouble to himſelf, but a danger to his Fellows, and an encouragement to his Enemies.

After the Poſtures, the next thing that they are to be inſtructed in, is the ſeveral Diſtances, and theſe are truly the ground of all Motion, for without Diſtance the Motions cannot be executed: So that this, as well as the former, ſhould truly be obſerved in all Exerciſes, therefore we will proceed as followeth.

The Company ſtanding in their *Cloſe Order*, both in Ranks and Files, then firſt,

Command.

Ranks, open backward to Order.

Files, open to the right to your open Order.

Ranks, open backward to open Order.

Files,

Files, open to the left to open Order.

Ranks, open backward to double Diſtance.

Files, open outward to double Diſtance.

Ranks, cloſe forward to open Order.

Files, cloſe inward to open Order.

Ranks, cloſe forward to your Order.

Files, cloſe to the left to your Order.

Theſe Commands being ſufficient to declare each ſeveral Diſtance, we will gradually proceed to the reſt of the Command intended for this days Exerciſe.

Command.

Face to the { Right / Right / Right / Right / Right about / Left about } As you were.

Note: *The ſame Command may be given to the left.*

Command.

Face to the { Front & Reer / Right & left outward / Right & left inward } As you were.

Ranks and *Files* being at open Order,

Command.

Ranks, to the right double.
Files, to the left double.
Ranks, to the left double.
Files, to the right double.
Half Files, double your Front to the right.
Files, double your Depth to the left.
Half Files, double your Front to the left.
Files, double your Depth to the right.
Bringers up, double your Front to the left.
Files, double your Depth to the right, every Man placing himself behind his *Bringer up*.

Brin-

Bringers up, double your Front to the right.

Files, double your Depth to the left, every Man falling behind his *Bringer up*.

Double your *Ranks* to the right or left entire.

Right half Ranks, double your left or right Flank.

Half Files, double your Front to the left entire.

Left half Ranks, double entire the depth of the right half Ranks.

Half Files, double your Front to the right entire.

Right half Ranks, double entire the depth of the left half Ranks.

Files, to the right hand Countermarch, and maintain ground.

Files, to the left hand Countermarch, and maintain ground.

The ſame may be done in *Ranks* and *Files*, either maintaining, gaining, or loſing Ground, as hath been ſhewed.

Wheel your Battel to the { Right. / Left. / Right about. / Left about.

Files, file to the right.

Files,

Files, file six to the left.
Files, file to the left.
Files, file six to the right.
Ranks, file to the right and left.
Files, rank as you were.

CHAP. XXX.

Several Figures of Battel, with Firings upon the same: For performance whereof,

Command.

Files, to the right and left double inward.

The three first *Ranks* wheel your Front into the midst.

The three last *Ranks* wheel your Reer into the midst.

The rest of the Body face to the right and left, then march all; face all to the right about, and march, and close your Divisions.

Note: You may by doubling *Files* to the right in each Division, make the *Cross Battel*.

For

For the first Firing, let them give fire either to Front or Reer, or to both Flanks, falling in the Reer of their own Divisions.

For the second Firing, let them fire to all four at once, falling off to the right and left, placing themselves in the Reer of their own Division of *Pikes*, the *Pikes* at the same time charging to the Horse.

For the third Firing, they may fire by way of Introd[illegible]ion, thus: Every Rank of *Musketiers* is to pass through their Division of *Pikes*, placing themselves

ſelves before the *Pikes*; then ſtand, preſent, and give fire, the next moving up as before, which will reduce them.

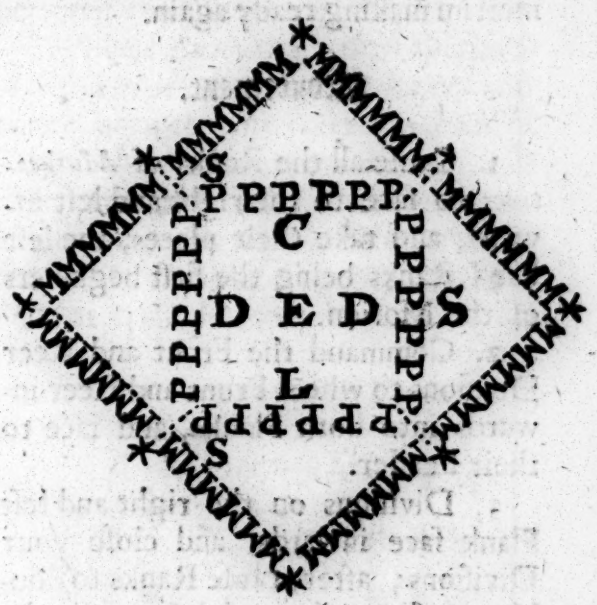
Note, That this laſt Firing muſt be performed with the laſt Rank firſt, and ſo the next to the laſt, ſo that the firſt Rank muſt be laſt in this Firing.

Command.

The firſt Rank of *Muſkettiers*, both in Front, Reer, and both Flanks, face to the right, and move two paces.

The next Rank of *Muſkettiers* of each Diviſion face to the left, and move likewiſe two paces; then wheel to the right and left outwards Oblique before each Diviſion of *Pikes*, as in the following Figure.

For



For firing upon this Figure, the *Musketiers* being faced all outwards, are to ſtand, and preſent, and fire all together in one Volley; or if you would have the *Musketiers* give fire one after another, then the Vollies by ſucceſſion (which is commonly called *The Peal*) will be beſt beginning at the right hand of the Front, and ſo taking it round from one another 'till they

they have fired over, the reſt in the interim making ready again.

Reducement.

1. Cauſe all the Ranks of *Muſketiers* to face to the right and left inward, and take their places, the left hand Ranks being the firſt beginners of the Motion.

2. Command the Front and Reer Diviſions to wheel Front and Reer inwards into both Flanks, and face to their Leader.

3. Diviſions on the right and left Flank face inwards, and cloſe your Diviſions; after, cauſe Ranks to double to the right and left outward; Files cloſing inwards to order, and and Ranks cloſing forward to order, and they will be reduced as at firſt.

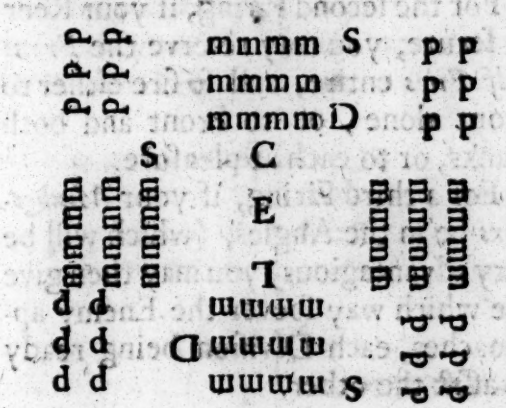
Command.

Half Files of *Pikes* face to the Reer, and march, until you are clear of the laſt Rank of *Muſketiers*.

Half Files of *Muſketiers* face outwards, and wheel your Reer to the right

right and left by Diviſion, and march between the Diviſion of *Pikes*.

Left half Ranks of the firſt Diviſion of *Muskettiers* face to the Reer, and march between the Reer Diviſions of *Pikes*; then even your Ranks, and ſtreighten your Files, and cloſe your Diviſions to an equal diſtance, and face all to the right about, they will ſtand as in the Figure.



Note: That all the *Muskettiers* muſt be in the midſt, and the *Pikes* on the Flanks, when you begin to make this Figure; if your *Muskets* be on the Flanks when you make it, then the Croſs will be *Pikes*, and the Angles *Muskets*, and your Command muſt be con-

contrary; as now you Command *Half Files* of *Pikes*, in this you muſt Command *Half Files* of *Muſkettiers* to face to the Reer, as aforeſaid.

The manner of Firing upon the aforeſaid Figure may eaſily be apprehended; every Diviſion is to fire by Ranks, wheeling all off to the right, placing themſelves in the Reer of their own Diviſion.

For the ſecond Firing, if your Reer be ſecure, you may reſerve the *Front half Files* entire, and ſo fire either to Front alone, or to Front and both Flanks, or to each at pleaſure.

For a third Firing, if your *Muſkettiers* be in the Angles, (which will be very advantagious) you may then give fire which way ſoever the Enemy approaches, each Diviſion being ready to aſſiſt the other.

Command.

Reducement of the Plinthium into the Solid Square flanked with Pikes.

Reer Diviſion of *Muſkettiers* face about; march up on the left of your own Diviſion of *Muſkettiers* in Front, the *Pikes* being firſt opened to give them place.

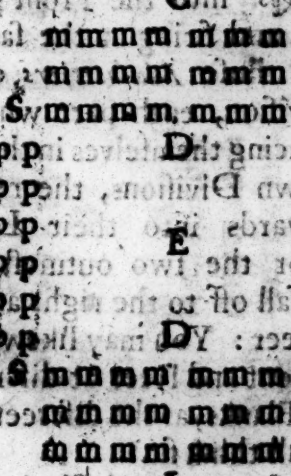
Divi-

Divisions of *Musketiers* upon each Flank face inwards, and close your Divisions by wheeling into the midst; face to your Leader.

Reer Divisions of *Pikes* face about, march up; and place your selves right after your Leaders.

Reer Division, or *Reer half Files*, of *Musketiers*; face to the Reer.

Musketiers, march all, 'till clear of your *Pikes*; then face to your Leader, and close your Divisions, which produceth this Figure:



For the first Firing, let them fire to the Front, every Rank of the Front Division after they have fired, to fall off to the right and left into the Reer of the Reer Division of *Musketiers*; the rest advancing into their Leaders ground, and so firing and falling off as before, the Reer Division at the same time moving up into the Front, and fire, falling off into their places.

For the second Firing, if your Reer be secure, Command the *Reer Division* of *Musketiers* to open to the right and left, and sleeve upon the outside of the *Pikes* into the Front; then presenting and firing at the same instant with those *Musketiers* of the Front Division, each part wheeling off, and placing themselves in the Reer of their own Divisions, the rest moving forwards into their Leaders ground; or the two outmost Divisions may fall off to the right and left into the Reer: You may likewise fire to both Front and Reer at discretion, or to both Flanks, as the discreet Commander shall think fit.

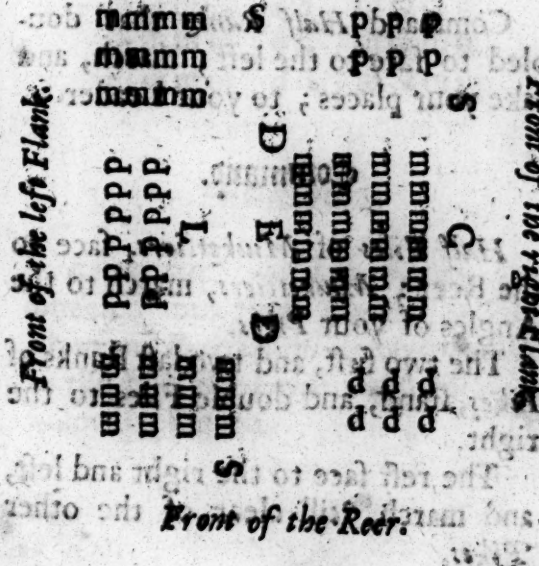
But the firing to both Flanks at this present time shall be a Reducement,

by commanding the *Musketiers*, both in Front and Reer, to face outwards; *Pikes*, face inwards; march, and close your Divisions; which being performed, they will be reduced to their proper Square flanked with *Musketiers*, as at first.

Command.

Half Ranks of the left, double your right Flank.

Front Prospect.



You may fire upon this Figure to Front and Reer, by commanding the two laſt Ranks of the Diviſion of *Muſkettiers* upon the right Flank, to wheel to the right and left into Front and Reer.

For a ſecond Firing, let them fire as now they ſtand, either to the right or left Flank, or to both at once, as occaſion ſhall ſerve, falling of in the Reer of their own Diviſions.

Reducement.

Command *Half Ranks* that doubled to face to the left; march, and take your places; to your Leader.

Command.

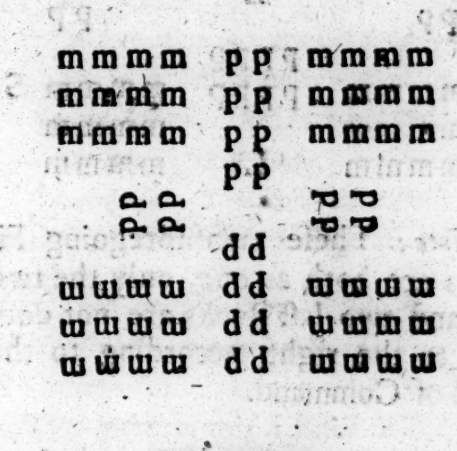
Half Files of *Muſkettiers*, face to the Reer; *Muſkettiers*, march to the Angles of your *Pikes*.

The two firſt, and two laſt Ranks of *Pikes*, ſtand, and double Files to the right.

The reſt face to the right and left, and march, 'till clear of the other *Pikes*.

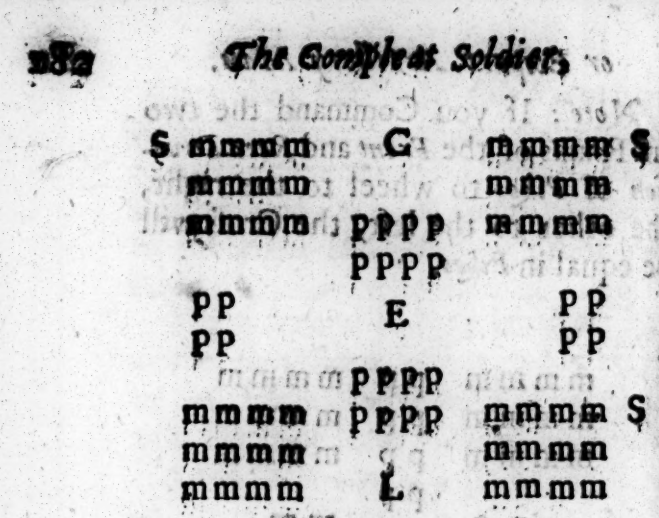
Note:

Note: If you Command the two laſt Ranks of the *Front* and *Reer Diviſion* of *Pikes* to wheel to the right, the other to the left, the Croſs will be equal in *Pikes*.



Reducement.

After the two laſt Ranks have wheeled into their places, and the *Front* and *Reer Diviſions* have doubled to the left, they will ſtand as in the following Figure.



Note: These two foregoing Figures are both as one, only the two first and two last Ranks are not doubled to the right, according to the word of Command.

For Firing upon these two foregoing Figures, you may produce several, with some little alteration, either to Front or Reer alone, or to either Flank, or to both Front and Reer at the same time, by commanding the one half, both of *Muskets* and *Pikes*, to face to the right about, and so give fire; these of the right Flank to wheel off to the right, the left Flank to the left, in the Reer of their own

Divi-

Diviſions; the reſt moving up into their Leaders ground.

Reuncement.

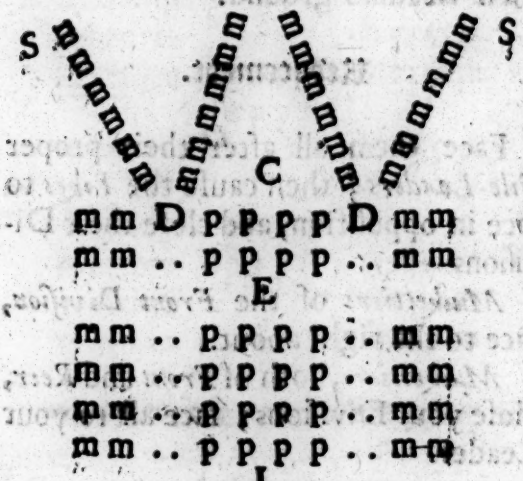
Face them all after their proper *File-Leaders*; then cauſe the *Pikes* to face in oppoſition, and cloſe their Diviſions.

Muſkettiers of the *Front Diviſion*, face to the right about.

Muſkettiers, both of *Front* and *Reer*, cloſe your Diviſions; face all to your Leader.

Command.

The two outmoſt Files of *Muſketiers* march forth, being led by four Officers; two of which are to return into their places; the Serjeants that led forth the outmoſt Files, are to ſtand to ſee them do their Execution; the two inmoſt Files face inwards Oblique, croſs the Front of *Pikes*; the outmoſt Files face outwards in an Oblique manner; then to your Leader. Obſerve the Figure.

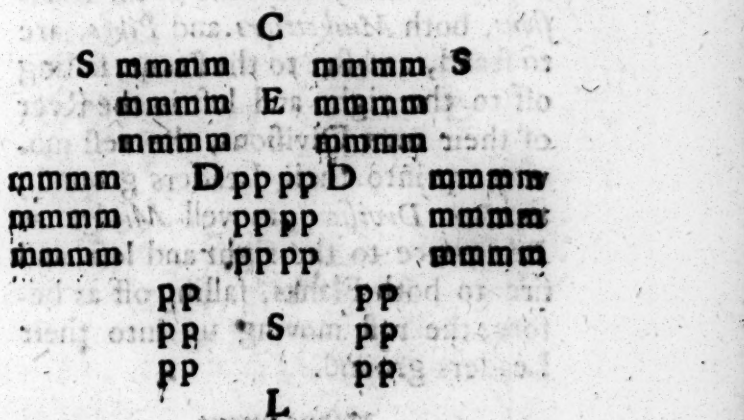


For to fire upon this Figure, let the *Musketiers* present all together, as now they ſtand, and give fire; and then ſuddenly facing after their *Bringers up*, march down into their places; then next two Files of each Flank in the interim moving forwards into their Leaders ground, and ſo fire, and fall off as before, which reduceth them.

Command.

Musketiers, march, until your *half Files* range even with the Front of *Pikes*; then ſtand.

Half Files (of each Arms) face outward, and march until you are clear of the Angles of your Arms; then ſtand; face all to your Leader.



This Figure fit to fire to the Front and both Flanks; if to the Front, and that you would preſerve your Figure, then the *Musketiers* muſt move forwards into their Leaders ground.

If

If you please, you may move forwards your *Reer Division* of *Musketiers*, and make Wings of them, when having fired once or twice over, may retreat into their places; the *Pikes* in the mean time are to Advance, Move forwards, Port, Charge, Stand, or Retreat.

If you would give fire to both Flanks, and to the Front, at one and the same time, then the *Front Divisions*, both *Musketiers* and *Pikes*, are to stand, and fire to the Front, falling off to the right and left in the Reer of their own Divisions, the rest moving up into their Leaders ground; the *Rear Divisions*, as well *Muskets* as *Pikes*, face to the right and left, and fire to both Flanks, falling off as before, the rest moving up into their Leaders ground.

Reducement.

Command the *Reer half Files*, both of *Muskets* and *Pikes*, to face inwards, and close their Divisions.

Pikes, march up, and even your Front of *Musketiers*; face to your Leader, and they will be reduced.

Command.

Files, to the right double; then wheel your Flanks into the Rear; then face the Body to one of the Flanks, and wheel your Battel into a *Convex* Half Moon.

For to fire upon this Figure as now they ſtand, let the *Pikes* Charge overhand, and the *Muſkettiers* give fire as they ſtand, preſenting all to the Front.

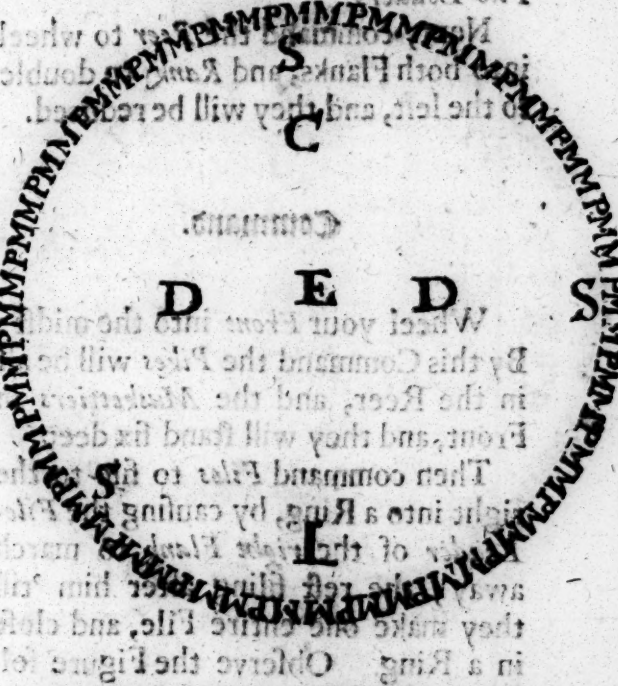
For

For a ſecond Firing, if the Enemy preſs upon either of the Flanks or Reer, you may cauſe the whole Body to face outwards, and then let the *Muſketiers* give fire, falling off to the right and left through their intervals, placing themſelves in the Reer of their *Pikes*, the *Pikes* at the ſame time charging over-hand.

Command,

Wheel your *Flanks* to the right and left into an even Front, then face to your Leader; which being performed, they will ſtand three deep in File; then Command *Files* to file to the right into a Ring, being led away by ſome Officer, until the *File-Leader* of the *right Flank* falling juſt in the Reer of the *Bringer up* of the *left Flank*; then face them all to the Center, and let them cloſe forwards to order; then face them to the right about, as in the following Figure.

For



For to fire upon this Figure, command the *Pikes* to charge round, and the *Musketiers* give fire all together; then let the Commander go to the place where the *File-Leader* of the *right Flank* filed first away, and command them to file as they were; which being performed, they will ſtand three deep, the *Pikes* being all in Front,

Front, and thereupon become the *File-Leaders*.

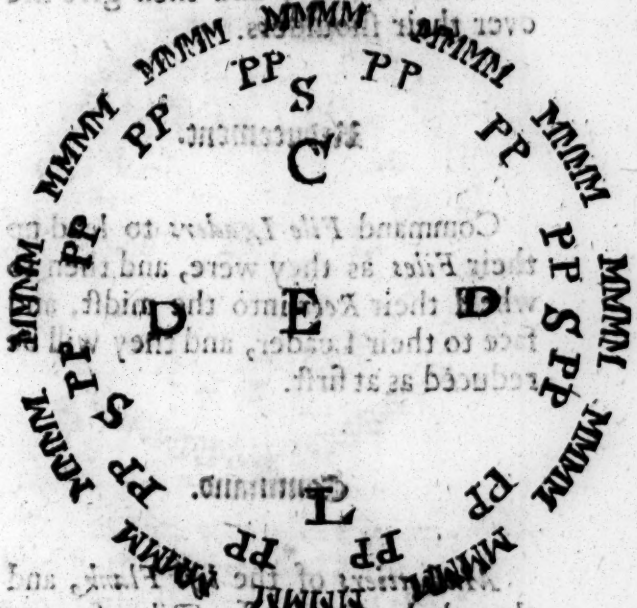
Next, command the *Reer* to wheel into both Flanks, and *Rank* to double to the left, and they will be reduced.

Command.

Wheel your *Front* into the midſt: By this Command the *Pikes* will be all in the Reer, and the *Muſkettiers* in Front, and they will ſtand ſix deep.

Then command *Files* to file to the right into a Ring, by cauſing the *File-Leader* of the *right Flank* to march away, the reſt filing after him 'till they make one entire File, and cloſe in a Ring. Obſerve the Figure following.

Fire



Fire upon this Figure, if you please, as now they ſtand, the *Pikes* at the ſame time porting: This may be continued ſo long as you think fit, round.

For a ſecond Firing, you may cauſe every Diviſion of *Muſketiers* to give fire, then fall down even with their Front of *Pikes*, and ſo fire again, the *Pikes* at the ſame time charging overhand

hand to the Horſe; or they may fall behind the *Pikes*, and then give fire over their ſhoulders.

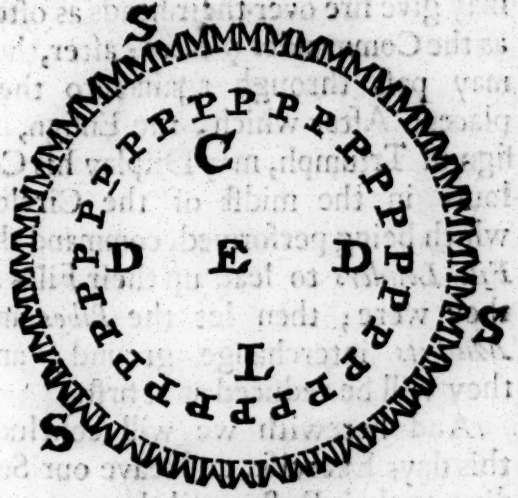
Reducement.

Command *File-Leaders* to lead up their *Files* as they were, and then to wheel their *Rear* into the midſt, and face to their Leader, and they will be reduced as at firſt.

Command.

Muſketiers of the *left Flank*, and the whole, ſtand off; *Pikes*, face to the right and left inwards, and interchange ground, which being done, the *Muſketiers* will be all upon the *right Flank*; then cauſe each Diviſion, both *Pikes* and *Muſkets*, to file to the right, the *Pikes* within the *Muſkets* at the ſame time making two Rings, as in the following Figure.

For



For to fire upon this Figure, command both *Muskets* and *Pikes* to face to the right about; then let the *Musketiers* all preſent as they ſtand, (the *Pikes* at the ſame time charging) and give fire; then let them make ready a ſecond time, and give fire, falling off between the intervals of their *Pikes*, placing themſelves behind their *Pikes*, the *Pikes* falling to their cloſe Order, by putting the But end of the *Pike* at the inſide of the right Foot, the *Pike* in the left hand, drawing their Swords over their left Arms. Then the

Muskettiers (the *Pikemen* ſtooping) may give fire over their heads as often as the Commander pleaſes; after, they may paſs through again into their places: After which, the Enſign, in ſign of Triumph, may Diſplay his Colours in the midſt of the Circle; which being performed, command the *File-Leaders* to lead up their Files as they were; then let the *Pikes* and *Muskets* interchange ground, and they will be reduced as at firſt.

And herewith we will conclude this days Exerciſe, and leave our Soldiers to their Reſts, until the morrow's Sun, and the thundering Drum ſhall call us into the Field again.

CHAP. XXXI.

The ſixth Days Exerciſe.

HAving the ſixth time brought your Soldiers into the Field, according to the accuſtomed manner; and being (doubtleſs) well experienced by their former Exerciſes, in the well managing and handling of their

their Arms, and likewiſe in all other Commands, as *Diſtances*, *Facings*, *Doublings*, *Countermarches*, and *Wheelings*, which will not only encourage the Commander, but much delight him, to ſee that they are not unmindful of his Commands; and likewiſe will cauſe him to ſtudy ſome new Commands farther to delight them with; ſo after he hath ſeen them perform all, or moſt of his former Commands, ſuch as he ſhall think fit, he may proceed to theſe or the like Doublings; as, 1. To make them all *File-Leaders* by Succeſſion: 2. By Dignity; with ſuch words of Command as they have not yet had in any of their former Exerciſes.

Command.

Ranks, to the left double.
Files, to the left double. 2*d* Man.
Half Files, double your Front to the right.
Files, to the right double. 3*d* Man.
File-Leaders, ſtand; the reſt paſs through to the right, and place your ſelves before your Leaders. 4*th* Man.

Note: *That theſe Commands make every Man File-Leader by Succeſſion.*

Ranks, to the left double. 5*th* Man.

Files, double your Depth to the left.

Ranks } to the right } 6*th* Man.
Files } double. }

File-Leaders, ſtand; the reſt paſs through, and place your ſelves before your Leaders. 1*st* Man.

Command.

Theſe Commands make every Man File-Leader by Dignity.

Bringers up, double your Front to the right.

Files, double your Depth to the right. 2*d* Man.

File-Leaders, and *Half File-Leaders*, ſtand; the reſt paſs through to the left, and place your ſelves before your Leaders. 3*d* Man.

Front and *Reer half Files*, interchange ground. 4*th* Man.

Ranks } to the right } 5*th* Man.
Files } double. }

File-Leaders, ſtand; the reſt paſs through to the left, and place your ſelves before your Leaders. 6*th* Man.

Ranks } to the left } 1*st* Man.
Files } double. }

Half Files, double your Front to the right.

Brin-

Bringers up, face about to the right, and march forth into your places.

After you have ended theſe Doublings, you may proceed farther with theſe or the like ſort, for the ingenious Commander may find out variety ſtill to delight the Soldier; but for this days Exerciſe, we will proceed with theſe enſuing Commands.

Command.

Reer half Files, double your Front by Diviſion.

The ſix outmoſt *Files* upon each Flank, double entire, advancing the twelve middle Files.

Front half Files, double your Reer inward entire.

The twelve inmoſt *Files* double the depth of the ſix outmoſt *Files*, and after, cloſe.

Front half Files, double your Reer to the right entire.

Left half Ranks, double your right Flank entire, advancing.

Half Files, double your Front to the right.

Double your *Files* to the right entire, advancing.

Half Files, double your Front inward entire.

The six outmost *Files* upon each Flank, double entire the depth of the twelve middle Files; to your Leader.

CHAP. XXXII.

Entire Doublings to the right Flank.

C. *Files*, to the right double.

R. *Ranks*, to the left double.

C. *Files*, to the right and left, double outward.

R. *Ranks*, to the right and left, double inward.

C. Double your *Files* to the right, advancing.

Direction. Every even *File* from the right move forwards, and by three steps double the odd.

R. *Ranks*, to the right double.

C. Double your Files outward, advancing.

Dire-

Direction. Even *Files* from the Flanks move forward, and double the odd.

R. *Ranks*, to the right and left, double outward.

C. Double your *Files* to the right and left inward, advancing.

Direction. Even *Files* from the midſt move forward, and by three ſteps double the odd.

R. *Ranks*, to the right and left, double inward.

C. *Left half Ranks*, double your right Flank to the right.

R. Double your *Ranks* to the left entire.

C. *Left half Ranks*, double your right Flank to the right and left outward.

R. *Front* and *Rear half Files*, double your Ranks entire to the left Flank.

Direction. Even *Ranks* from the midſt march forth, and double *Ranks* entire towards the left Flank; to your Leader.

C. *Left half Ranks*, double your right Flank to the right and left inward.

R. *Front* and *Reer half Files*, double your Ranks entire to the left Flank.

Direction. *Half Files*, face about; even *Ranks* from the Front and Reer march forth, and double your Ranks entire to the left Flank; face to your Leader.

C. *Left half Ranks*, double your right Flank to the right by Countermarch.

Direction. *Right half Ranks*, face to the right; *Left half Ranks*, turn off to the left; march, and double your right Flank; to your Leader.

R. Double your *Ranks* to the left entire, every Man placing himself on the outside of his left hand Man.

C. *Left half Ranks*, double your right Flank to the right and left outward by Countermarch.

Direction. *Right half Ranks*, face to the right; *Left half Ranks*, face to the left, and turn off to the right and left outward; march, and double your right Flank; to your Leader.

R. *Front* and *Reer half Files*, double your Ranks entire to the left Flank, every Man placing himself on the

the outside of his right and left hand Man.

Direction. *Front half Files*, face about; and every even *Rank* from the midst march, and double the odd, placing your selves according to Command; and every even *Rank* of the *Reer half Files* march forth to the left Flank, and double the odd according to Command; to your Leader.

C. *Left half Ranks*, double your right Flank to the right and left inward by Countermarch.

Direction. Face all to the right and left outward; *Left half Ranks*, turn off to the right and left inwards; march, and double the right Flank; to your Leader.

R. *Front* and *Reer half Files*, double your Ranks entire to the left Flank, every Man placing himself on the outside of his right and left hand Man.

Direction. *Half Files*, face about; then even *Ranks*, both from the Front and Reer, march forth to the left Flank, and double the odd according to Command; to your Leader.

C. Double your *Files* to the right entire, advancing. R. *Half*

R. *Half Files*, double your Front to the right.

C. *Files*, double your Depth to the right entire.

R. *Half Files*, double your Front to the left.

C. Double your *Files* inward entire to the right.

Direction. *Half Files* of every even File from the left, face about; even *Files* from the left, march, until you are clear of the ſtanding part; after, face all to the right, and then even Files from the right march, and double entire the odd; face to your Leader.

R. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks to the right.

Direction. The three firſt Ranks face about, and move down to the midſt by their own left hands; and the three laſt Ranks move forward to the midſt, to their own right hands; to your Leader.

C. Double your *Files* to the right entire, advancing, every Man placing himſelf before his Leader.

R. *Front half Files* by Countermarch, double your Reer to the right; to your Leader.

C. *Files*, double your Depth to the right, every Man falling behind his *Bringer up*.

R. *Bringers up*, double your Front to the left.

C. *Left half Ranks*, double your right Flank entire, advancing.

R. *Front half Files*, double your Reer to the right entire; face to your Leader.

C. *Left half Ranks*, double entire the depth of the right Flank.

R. *Half Files*, double your Front to the left entire; face to your Leader.

C. *Left half Ranks*, double your right Flank inward entire.

R. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks entire to the right Flank; face to your Leader.

CHAP.

CHAP. XXXIII.

Diviſional Doublings to the right Flank.

C. DOuble your *Files* to the right by Diviſion.

Direction. *Half Files* of the even Files from the right, face to the Reer; even Files, march clear of the ſtanding part; after, move to the right and left, and double the odd Files; to your Leader.

R. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks to the left.

Direction. The three firſt Ranks face about; march down by your own right hands into the midſt of Ranks; the three laſt Ranks move forward to the midſt to your own left hands; to your Leader.

C. Double your Files to the right by Diviſion, every Man placing himſelf before his *Leader*, and his *Bringer up*.

Dire-

Direction. *Half Files* of the even Files from the right, face to the Reer; the even Files march, and double the odd according to Command; to your Leader.

R. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks to the left, every Man placing himſelf before his *Leader*, and his *Bringer up*.

Direction. The three firſt Ranks face about to the left; move down to the midſt of Ranks by your own right hands, placing your ſelves before your *Bringers up*; and the three laſt Ranks march forward into the midſt, placing your ſelves before your Leaders; to your Leader.

C. *Left half Ranks*, double your right Flank by Diviſion.

Direction. *Half Files* of the left half Ranks face about to the right; the left half Ranks move clear of the ſtanding part; face all to the right Flank, and march, until they have ranged even a Breaſt with the right Flank; face to your Leader.

R. The

R. The three firſt, and the three laſt Ranks, double the ſix middlemoſt Ranks entire to the left Flank.

Direction. The three firſt, and the three laſt Ranks, face to the left Flank, and move clear of the ſtanding part; after, face inward; march, and cloſe your Diviſions; to your Leader.

CHAP. XXXIV.

Entire Doublings to the right Flank by Wheelings.

C. WHeel off your left *half Ranks*, and double your right Flank entire to the right.

Direction. Face outward; left half Ranks, wheel about to the left; march, until you have doubled the right Flank entire to the right; face to your Leader.

R. Wheel off your *Reer half Files*, and double your Front to the left entire.

Direction. *Half Files*, face to the Reer, and wheel about to the right; march

march forward, until you range even a Breaſt with the Front.

C. Wheel off your *Left half Ranks*, and double your right Flank entire to the left.

Direction. *Left half Ranks*, face outward; wheel about to the right; march, until you have doubled the right Flank entire to the left; face to your Leader.

R. Wheel off your *Front half Files*, and double your Reer to the right entire.

Direction. *Half Files*, face about; *Front half Files*, wheel about to the left; march, and double your Reer to the right; face to your Leader.

C. Wheel the *Left half Ranks* inward into the midſt, and double your right Flank inward entire.

Direction. *Half Files* of the right half Ranks, face about; *Right half Ranks*, march clear of the ſtanding part, then face to the right, and *Left half Ranks* face to the left, and wheel inward into the midſt; then march, 'till you have doubled the right Flank inward entire; face to your Leader.

R. Wheel

R. Wheel off the ſix middlemoſt Ranks, and double your Front and Reer entire to the left Flank.

Direction. The ſix middle Ranks face to the right, and wheel about to the right and left; march, until you are clear of the ſtanding part; then face to the Front and Reer, and march, doubling the Front and Reer towards the left Flank; face to your Leader, and cloſe your Diviſions.

CHAP. XXXV.

Diviſional Doublings to the right Flank by Wheelings.

C. WHeel off your *Left half Ranks*, and double your right Flank by Diviſion.

Direction. Face outward; and *Left half Ranks* wheel off to the right and left about, and march, until you have doubled the right Flank; to your Leader.

R. Wheel off the three firſt, and the three laſt Ranks, and double the ſix middlemoſt Ranks entire to the left Flank. *Dire-*

Direction. The three laſt Ranks face about, and wheel to the right about; march up towards the midſt of the left Flank, the three firſt Ranks at the ſame time wheeling about to the left, moving down to the midſt of the left Flank; to your Leader.

C. Wheel off your *Front* and *Reer half Files* into the right Flank by Diviſion.

Direction. Face all to the right, and wheel off to the right and left, until the *Bringer up* of the right hand File meet with the right hand *File-Leader.*

R. Wheel *Front* and *Reer* into the left Flank; face to your Leader.

Note: *Upon this Command they muſt be all faced to their proper Front before the Motion.*

Thus I take leave of all *Doublings*, leaving the ingenious to make uſe of ſo many as may fit the opportunity, both of Time and Seaſon, and ſo proceed to *Firings* and *Figures* of *Battel*: The Ranks being even'd, and the Files ſtreighten'd, the Captain commands, the Drum beats, and the Muskettiers make ready for Skirmiſh, upon theſe Figures following.

CHAP. XXXVI.

Figures of Battel, with Firings upon the ſame, for this ſixth days Exerciſe.

Command.

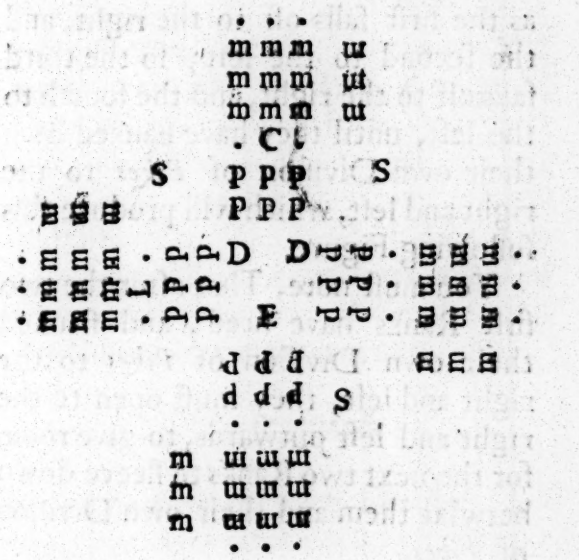
Files, to the right and left, double inward.

The three firſt Ranks wheel your Front into the midſt.

The three laſt Ranks wheel your Reer into the midſt.

The reſt of the Body face to the right and left, and march all three paces; and after, double Files to the right in each Diviſion, and they will ſtand as in this following Figure.

The Croſs Battel.

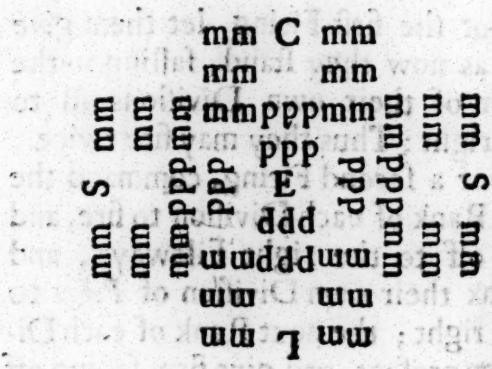


For the firſt Firing, let them give fire as now they ſtand, falling in the Reer of their own Diviſions all to the right: Thus they may fire twice.

For a ſecond Firing, command the firſt Rank of each Diviſion to fire, and fall off to the right Fileways, and Flank their own Diviſion of *Pikes* to the right; the next Rank of each Diviſion preſent, and give fire, falling off

to the left Fileways, being led off by their left hand Man, and ſo flank their own Diviſion of *Pikes* to the left; and as the firſt falls off to the right, and the ſecond to the left; ſo the third falls off to the right, and the fourth to the left, until they have flanked each their own Diviſion of *Pikes* to the right and left, which will produce this following Figure.

You muſt note, That after the two firſt Ranks have fired, and flanked their own Diviſion of *Pikes* to the right and left, they muſt open to the right and left outwards, to give room for the next two Ranks to ſleeve down betwixt them and their own Diviſion of *Pikes*.



You

You may fire upon this Figure ſeveral ways; as, 1. To Front and Reer, falling in the Reer of their own Diviſions. 2. To both Flanks, ſtill falling off as before, in the Reer of their own Diviſions. 3. You may cauſe them to fire to both Front and Reer, and both Flanks, falling off to the right and left by Diviſion, placing themſelves in the Reer of their own Diviſion, ſtill moving forwards into their Leaders ground, ſtill preſerving the Figure in the ſame order.

Reducement.

Muskettiers of each Diviſion face inwards; and Files rank to the right and left into the Front of each Diviſion, and take your places as you were; the inmoſt File of the left hand of each Diviſion is to begin the Motion; then the inmoſt right hand File is to follow, and to rank as before; then the left hand File of each Diviſion; and laſtly, the right hand File, until they have all ranked as they were.

2. Command Ranks to the left double in each Diviſion.

3. Command the Front and Reer Diviſions to wheel their Front and Reer inwards into both Flanks, and face to their Leader; after, cauſe the right and left Flank to face in oppoſition, and march, and cloſe all their Diviſions; then cauſe Ranks to double to the right and left outward, Files cloſing inward to order, and Ranks cloſing forward to order, and they are reduced as at firſt.

Command,

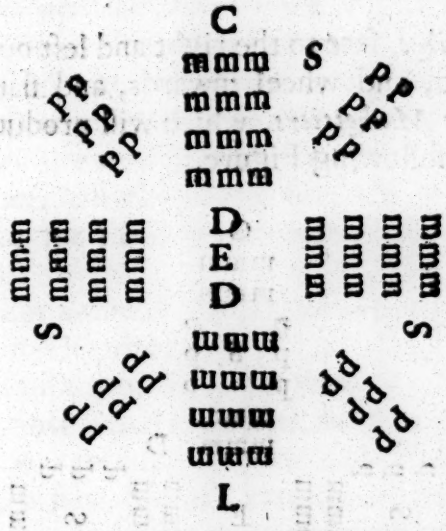
Files, to the right double; *Pikes*, to the right and left outward; *Muſketiers*, to the right and left inward; march, and interchange ground; to your Leader.

The three firſt Ranks wheel your Front into the midſt.

The three laſt Ranks wheel your Reer into the midſt.

The reſt of the Body face to the right and left; then march all three paces; and after, double Files to the right in each Diviſion, and they will ſtand as in the *Croſs Battel*, the *Pikes* being in the head of each Diviſion of *Muſketiers*. Next,

Next, command the *Pikes* of each Division to wheel to the right, and move into the ſpace between the Angles of the *Muſkettiers*, which produceth this following Figure.

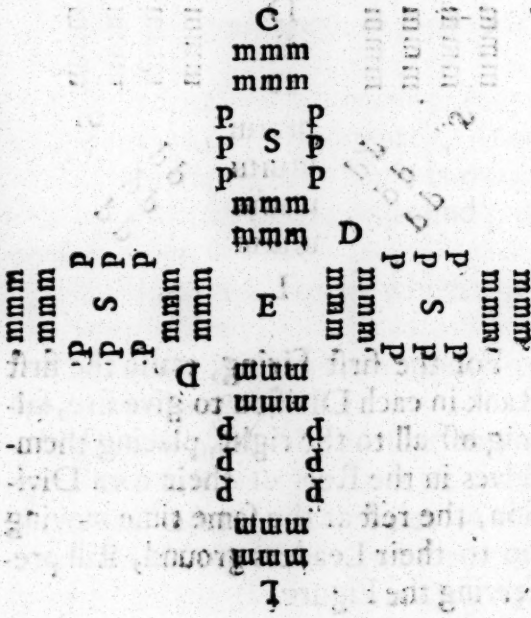


For the firſt Firing, cauſe the firſt Rank in each Diviſion to give fire, falling off all to the right, placing themſelves in the Reer of their own Diviſion, the reſt at the ſame time moving up to their Leaders ground, ſtill preſerving the Figure.

For a ſecond Firing, command the two firſt Ranks of each Diviſion of *Muſkettiers* to march forwards ſix paces; then ſtand.

Command.

Pikes, face to the right and left outward, and wheel inwards, and flank your *Muſkettiers*, which will produce this following Figure.



Note: *Upon this Firing, you muſt cauſe the* Muskettiers *in the midſt to cloſe to the Front, Reer, and Flanks.*

For

For this Firing, let them fire as now they ſtand, by Ranks falling off to the right, placing themſelves in the Reer of the *Reer Diviſions*, they at the ſame time moving up into their Leaders ground, and ſo preſerve the Figure: This may be done twice or thrice at the diſcretion of the Commander.

You may face them to the Front, and only fire them to that part by Diviſions, every Diviſion relieving each other, 'till they have fired all over; then let them return into their places.

For a third Firing, they are to rank even with the *Pikes*.

For a fourth Firing, cauſe the *Pikes* to move a little forward, and the *Muſkettiers* to loſe ground; after, let the *Pikes* face inward, and cloſe Files to order, and wheel to the left into the Front of each Diviſion; which being performed, they will ſtand as before in the *Croſs Battel*. If you will proceed to reduce them into the firſt form,

Com-

Command.

Reducement to the laſt Figure.

Ranks, to the left double in each Diviſion.

Front and *Reer Diviſions*, wheel your Front and Reer inwards into both Flanks, and face to your Leader.

The right and left *Flank* face in oppoſition; march, and cloſe your Diviſions; then cauſe Ranks to double to the left; after, command *Muſkettiers* to face to the right and left outward; *Pikes*, to the right and left inward; march, and interchange ground; then face all to your Leader, and cloſe Files into the midſt to order, and Ranks cloſe forward to order, and they will be reduced as at firſt.

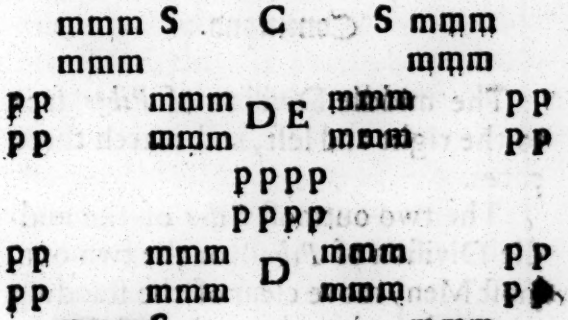
Command.

Reer Diviſion of *Muſkettiers*, (or *Reer half Files*) face to the right about.

Front and *Reer half Files* of *Muſkettiers*, wheel off by Diviſion your Front and Reer into both Flanks, and march 'till you are clear of your ſtand of *Pikes*; then ſtand. The

The two first Ranks of *Musketiers*, both of Front and Reer Division, face outwards, and march until your are clear of the other *Musketiers*; then stand.

The two first, and the two last Ranks of *Pikes*, face to the right and left outwards, and march 'till clear of the *Musketiers*; then face to Front and Reer, and move 'till you range even a Breast with the inmost Divisions of *Musketiers*; then face all to their Leader, and they will stand as in the following Figure.



Upon this Figure, let the first Divisions of *Musketiers* give fire, and fall off to the right and left in the Reer of them-

themſelves; then face to the right about, and move down, and interchange ground with them in the Reer, they at the ſame time moving up into the Front, and ſo fire, falling off as before in their places, the inmoſt Diviſions performing the like Motion.

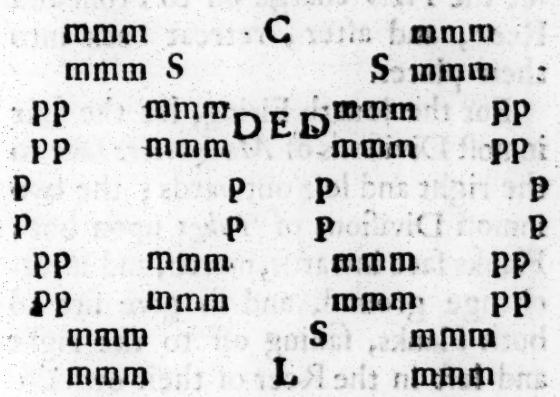
You may fire to the Reer after the ſame way, or to Front and Reer, falling in the Reer of their own Diviſions; the *Pikes* may Charge on, and after, retreating back again into their places.

Command.

The middle Diviſion of *Pikes* face to the right and left, and march three paces.

The two outmoſt *Files* of the middle Diviſion of *Pikes* (or the two outmoſt Men) move clear of the ſtanding part; then let the two firſt Ranks face about, the two firſt, and two laſt Ranks, move forward to order; face all to your Leader.

For



For the firſt Firing, let the Front Diviſions fire, and fall in the Reer of themſelves; then wheel off to the right and left in the room of them in the Reer, they at the ſame time moving forward into their places, firing, and falling off in like manner; next, let the inmoſt Diviſions of *Muſketiers* do the ſame, who may be relieved by the inmoſt Diviſions of *Muſketiers* in the Reer.

For the ſecond Firing, let them all face to the Reer, and give fire, as they did to the Front.

For the third Firing, let them face to Front and Reer, and give fire, and fall in the Reer of themſelves; then

let

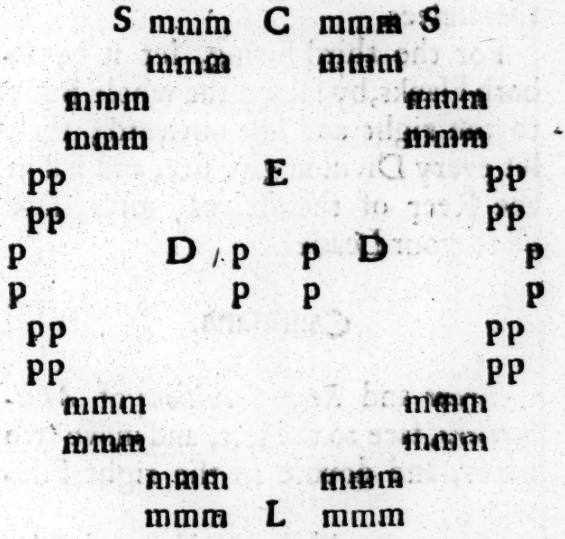
let the *Pikes* charge on to Front and Reer, and after, retreat back into their places.

For the fourth Firing, let the four inmoſt Diviſions of *Muſkettiers* face to the right and left outwards; the two inmoſt Diviſions of *Pikes* upon both Flanks face inwards, march, and interchange ground, and ſo give fire to both Flanks, falling off to the right and left in the Reer of their own Diviſions; after, they that were the inmoſt Diviſions may fire, and fall off into their places, the *Pikes* at the ſame time moving up into their places, ſtill preſerving the Figure.

Command.

Inmoſt Diviſions of *Muſkettiers*, move forward, until you be two Foot clear of the ſtanding part; then let them face all inward, and move three paces; after, face them to their Leader, which will produce this following Figure.

For



For the first Firing, let them fire to the Front, by Ranks falling off to the right and left, placing themselves in the Reer of their own Divisions.

For the second Firing, let them give fire, falling off to the right and left, and march, and interchange ground with them in the Reer, they at the same time moving up into their Leaders ground, and so firing, falling off as before into their places. The same may be done to the Reer, or to both Front and Reer, still preserving the Figure,

Figure, and falling into the Reer of themſelves.

For the third Firing, let it be to both Flanks, by facing the whole Body to the right and left outward; then let every Diviſion give fire, and fall in the Reer of themſelves; after, face all to your Leader.

Command.

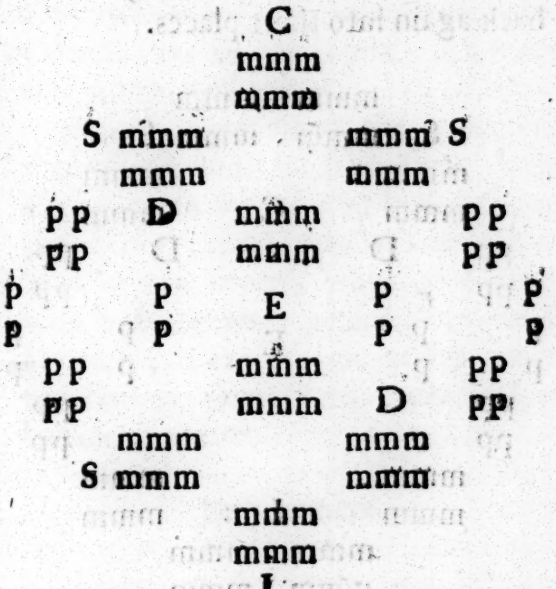
Front and *Reer Diviſions* of *Muſkettiers*, face to the left, and move two paces, and double to the right File-ways.

The two middle Diviſions of *Pikes* face outward, and move two paces; to your Leader.

The *Reer Diviſion* of the Front Diviſions of *Muſkettiers*, face to the right about.

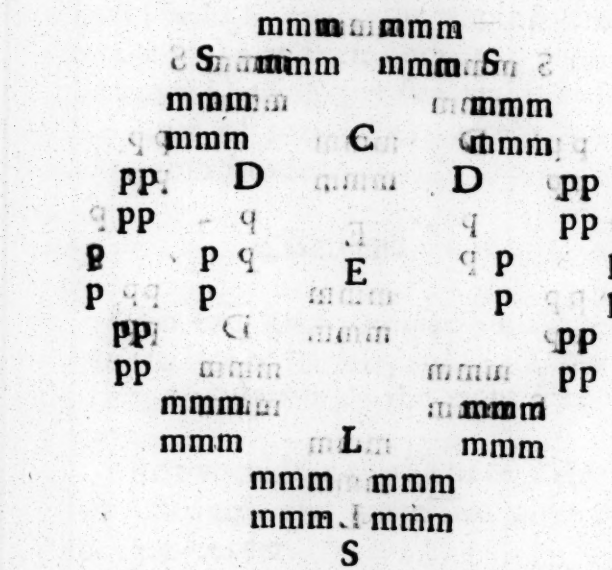
Front and *Reer Diviſions* of *Muſkettiers*, move ſtreight forwards, until you range even a Breaſt with the Front and Reer Diviſion of *Pikes*; face to your Leader, and they will ſtand as in the following Figure.

Upon



Upon this Figure, having faced both *Pikes* and *Muskets* to Front and Reer, let the first Divisions give fire, and fall in the Reer of themselves, and stand; let the rest move forward, until they be clear of the Front Divisions of *Musketiers*; then let them fire, and fall in the Reer of themselves; and after, face about, and move down into their places again: Then let the *Pikes* open outward, and Charge all

to Front and Reer; after, retreat back again into their places.



Command.

Note: *Upon this Command, the Body must be faced to Front and Reer, before you give the word of Command.*

Front and *Reer Divisions* of *Musketiers*, face to the right, and move three paces.

Middle Divisions of *Musketiers*, advance right forwards, and double your Front and Reer to the left Rankways; after, face all to the right and left, and march three paces; or to such

ſuch convenient diſtance, that if the Commander pleaſes, he may cauſe his Colours to be diſplayed. Obſerve the foregoing Figure.

As for firing upon the aforeſaid Figure, it will be the ſame as in *pag.* 223. ſo that if you look back to that Figure, there you will be inſtructed in the ſeveral ways of Firing, which to repeat again here were needleſs; therefore we will proceed to reduce them into their proper Square as at firſt.

Reducement.

Pikes, to the right and left inward; march, and cloſe your Diviſions; to your Leader.

Front Diviſions of *Muskettiers*, face to the right about; *Front* and *Reer Diviſions* of *Muskettiers*, march to the Angles of your *Pikes*; after, face in oppoſition, and cloſe your Diviſions; to your Leader.

Outmoſt Diviſions of *Muskettiers*, face to the right and left inwards, and cloſe your Diviſions; after, let your *Muskettiers* wheel their Front and

Note: *That if you wheel them before they cloſe, it will be the better; then let them march, and even their Pikes.*

Reer (by Diviſion) into the midſt, and march, and even their Front of *Pikes*; then let them cloſe Files inward to order, and Ranks cloſe forward to order, and they will be reduced as at firſt.

Command.

Files, open outward to open Order.

Ranks, open backward to your open Order.

Then let every two Files cloſe outward to order; and Ranks cloſe to Front and Reer to order; after, let every Diviſion wheel to the right, and they will ſtand in twelve Diviſions.

C

S E S

mmm mmm ppp ppp mmm mmm
mmm mmm ppp ppp mmm mmm

D D

mmm mmm ppp ppp mmm mmm
mmm mmm ppp ppp mmm mmm

L S

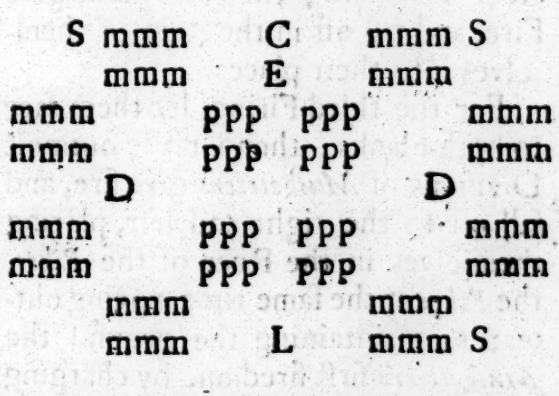
Command.

The two inmoſt Diviſions of *Muſkettiers* in the Reer, face to the right about.

Inmoſt Diviſions of *Muſkettiers* in Front and Reer, move forward clear of the ſtanding part; then ſtand.

Pikes, face to the right and left outward.

Muſkettiers upon the Flanks, face to the right and left inward; the reſt face about to the right; march all two paces; to your Leader.



For the firſt Firing, command Front Diviſions of *Muſkettiers* to give fire, and fall in the Reer of your ſelves;

after, fall off to the right and left, and march down into the Reer, they at the same time moving up into their ground, firing, and falling off in like manner as before; then let the Flank Divisions of *Musketiers* observe the same order in relieving each other; after, let the *Pikes* charge on, and retreat again into their places.

Note: *The Pikes are to Charge to Front and Reer, and after, to Retreat into their places.*

For the second Firing, let them face to Front and Reer; when faced, let the first Divisions give fire, and fall in the Reer of themselves; then immediately let the outmost Divisions move up even a Breast with the Front and Reer Divisions; then let them give Fire, and fall off in the Reer of themselves into their places.

A Firing to both Flanks at one and the same time.

For the third Firing, let them face to both Flanks; then let the outmost Divisions of *Musketiers* give fire, and fall off to the right and left, placing themselves in the Reer of the *Pikes*, the *Pikes* at the same time moving outwards, maintaining the ground the *Musketiers* first fired on, by charging with their *Pikes* over hand; then let the Front and Reer Divisions that stand faced to the Flanks give fire, and

fall

fall off in the Reer of their own Divi-ſions, ſtill preſerving their ground; having fired all over, command the *Pikes* and *Muſkettiers* to interchange ground, and face all to their Leader.

Command.

The four laſt Diviſions next to the Reer, both of *Pikes* and *Muſkettiers*, face about; move down, and range even a Breaſt with the Reer; Reer Diviſions of *Muſkettiers* that are faced to the Front, move forward, and place your ſelves three Foot ſhort of the next Diviſions that ſtand before you; to your Leader.

S mmm C mmm S
mmm mmm
mmm ppp E ppp mmm
mmm ppp ppp mmm
mmm D D mmm
mmm mmm
mmm ppp ppp mmm
mmm ppp L ppp S mmm

Note: *The Pikes ſhould be cloſed more to the right and left inward, and not ſo great an interval as is in the Figure.*

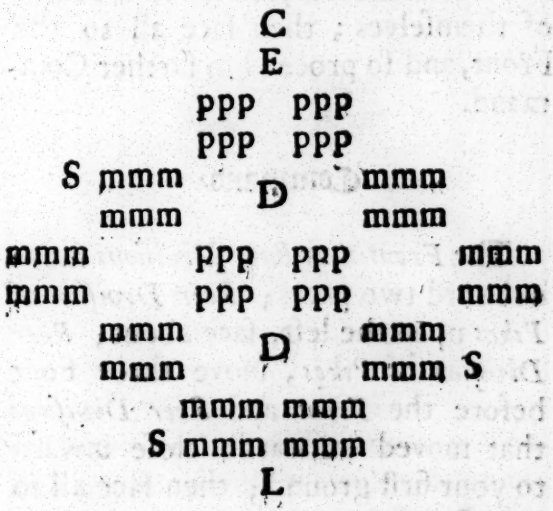
For to fire upon this Figure, let the Front Diviſions give fire, and fall in

the Reer of themſelves; then let them fall off to the right and left, placing themſelves in the Reer, the middle Diviſions at the ſame time moving up, poſſeſſing themſelves of the ground the Diviſions laſt fired on, and then let them give fire, and fall in the Reer of themſelves; after, let the outmoſt Diviſions in the Front move up, give fire, and fall off to the right and left, placing themſelves in the Reer of the Reer Diviſions, they at the ſame time moving up into their ground, and ſo firing, and falling into the Reer of themſelves, and ſo ſtand.

For the ſecond Firing, let them face all to the right about, and perform the ſame to the Reer as they did to the Front, and it will reduce them, both to their firſt Aſpect and Place; you may fire them to either Flank, or to both, as you pleaſe; but being all faced to their proper Front, as in the laſt Figure,

Command.

Diviſions of *Pikes* move forward, until your Reer Diviſions range even a Breaſt with the outmoſt Diviſions of *Muſkettiers*; Reer Diviſions of *Muſkettiers* face inward, and move ſtreight in the Reer of the Reer Diviſions of *Pikes*; face all to your Leader.



For the firſt Firing, let it be to the Reer and both Flanks, by commanding the two laſt Diviſions of *Muſkettiers* to face to the right about, the reſt

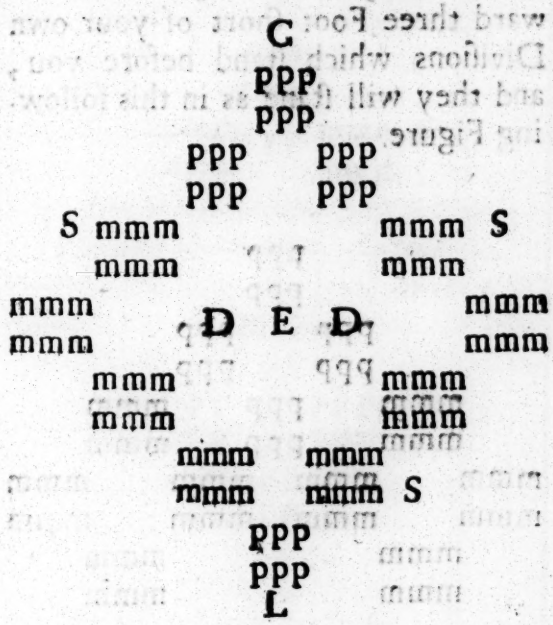
reſt to face to the right and left outward; then let them give fire on the ground they ſtand, and fall in the Reer of themſelves, until they have all fired over, and taken their places as at firſt.

For the ſecond Firing, let the four firſt Diviſions of *Muſkettiers*, and the two firſt Diviſions of *Pikes*, face to the Front; then let them give fire to Front and Reer, and fall in the Reer of themſelves; then face all to the Front, and ſo proceed to farther Command.

Command.

The *Front* and *Reer Diviſions* move outward two paces; *Reer Diviſion* of *Pikes* upon the left, face about; *Reer Diviſion* of *Pikes*, move three Foot before the *Front* and *Reer Diviſions* that moved outward; cloſe inward to your firſt ground; then face all to your Leader.

Com-



Command.

The two inmoſt Diviſions of *Muſkettiers* in the Reer move forward, until they range even a Breaſt with the outmoſt Diviſions of *Muſkettiers*, then ſtand.

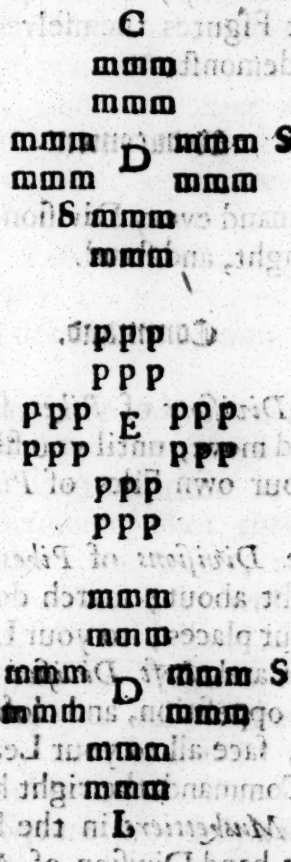
Reer

Reer Diviſion of *Pikes*, march forward three Foot ſhort of your own Diviſions which ſtand before you, and they will ſtand as in this following Figure.

PPP
PPP
PPP PPP
PPP PPP
mmm PPP mmm
mmm PPP mmm
mmm mmm mmm mmm
mmm mmm mmm mmm
mmm mmm
mmm mmm

Then let the four Diviſions of *Muſkettiers* upon the right move away, and let the Diviſions of *Pikes* fall in the Reer of them, and the four Diviſions of *Muſkettiers* on the left to fall in the Reer of the *Pikes*; then ſtanding ſtreight in their Diviſions, both Rankways and Fileways, and they will ſtand as followeth.

As



As for firing upon the foregoing Figures, it may be according to the Officers discretion in point of advantage, either in Ground, Wind, or what other advantage may be then found

found neceſſary; but in plain Exerciſe, the Figures themſelves do ſufficiently demonſtrate.

Reducement.

Command every Diviſion to wheel to the right, and ſtand.

Command.

Reer Diviſions of *Pikes*, face to the left, and move, until you file ſtreight with your own Files of *Pikes*; then ſtand.

Front Diviſions of *Pikes*, face to the right about; march down, and take your places; to your Leader.

Right and *Left Diviſion* of *Pikes*, face in oppoſition, and cloſe your Diviſions; face all to your Leader.

2. Command the right hand Diviſion of *Muſkettiers* in the Front, and the left hand Diviſion of *Muſkettiers* in the Reer, to march up, and even their Front of *Muſkettiers*.

3. Command the left hand Diviſion of *Muſkettiers* in the Front to face to the right, and the right hand Diviſion

ſion of *Muſkettiers* in the Reer to face to the left, then march, and take their places; to your Leader.

Laſtly, Command *Reer Diviſions* of *Muſkettiers* to march, and take their places; then let them even their Ranks, and ſtreighten their Files, and they will ſtand in three Grand Diviſions, ready to march; or if you pleaſe, to draw them up into a Square as at firſt.

Command the *Pikes*, and the *Reer Diviſion* of *Muſkettiers*, to face to the left, and march 'till they be clear of the firſt Diviſion of Shot, then face to your Leader; march up, and even your Front to the left; which being performed, they will ſtand as at firſt: So that upon the Reduction of the laſt Figure, you may either march them away as they ſtand, in three Grand Diviſions; or draw them up into the Square as at firſt, and march them after.

FINIS.

10 + 2

ERRATA.

PAge 26. Line 22. *read* and priming. l. 23. *for* and the Pike, *read* and the like. p. 32. l. 10. *for* Commands, *read* Commanders.

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Collated & complete

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RK 12.10.81